

FCC Radio Test Report

FCC ID : 2AAAS-CM06
Equipment : Vivint Doorbell Camera Pro (Gen 2)
Brand Name : Vivint
Model Name : CM06
Applicant : Vivint, Inc.
4931 N. 300W., Provo, UT 84604 USA
Manufacturer : Chicony Electronics Co., Ltd
No.69, Sec. 2, Guangfu Rd., Sanchong Dist.,
New Taipei City 241, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.247

The product was received on Dec. 08, 2021, and testing was started from Jan. 06, 2022 and completed on Jan. 14, 2022. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C10 Ver4.2
FCC ID: 2AAAS-CM06

Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(125kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(500kbps)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

- Bluetooth LE uses a GFSK (125kbps/500kbps/1Mbps/2Mbps) modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Amphenol	CY5873-12-001-C	PIFA	I-PEX
2	Amphenol	CY5873-12-002-C	PIFA	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	0.72	2.33	0.72
2	2	0.69	2.56	-

Note 1: The EUT has two antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 (port 1) can be used as transmitting/receiving.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / Host system		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:		...
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		...
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-LE(1Mbps)	0.61	2.15	379.375u	3k
BT-LE(125kbps)	0.809	0.92	3.098m	1k
BT-LE(500kbps)	0.588	2.31	1.058m	1k
BT-LE(2Mbps)	0.319	4.96	199.375u	10k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Daniel Lin	20.5~21.4℃ / 55~57%	12/Jan/2022
RF Conducted	TH07-HY	Alan Chien	21.1~25.9℃ / 49~59%	11/Jan/2022~14/Jan/2022
Radiated (Mode 1)	03CH02-HY	Jack Tang	20.2~21.8℃ / 55~58%	12/Jan/2022~13/Jan/2022
Radiated (Mode 2)	03CH02-HY	Jack Tang	20.3~21.5℃ / 56~58%	06/Jan/2022~07/Jan/2022
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	DOS 6.1
-----------------------	---------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(2Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(125kbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(500kbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
1	USB Mode, CTX
2	Adapter mode (Charging)

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz			
1	USB Mode, CTX		
2	Adapter mode (Charging)		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		

2.3 Support Equipment

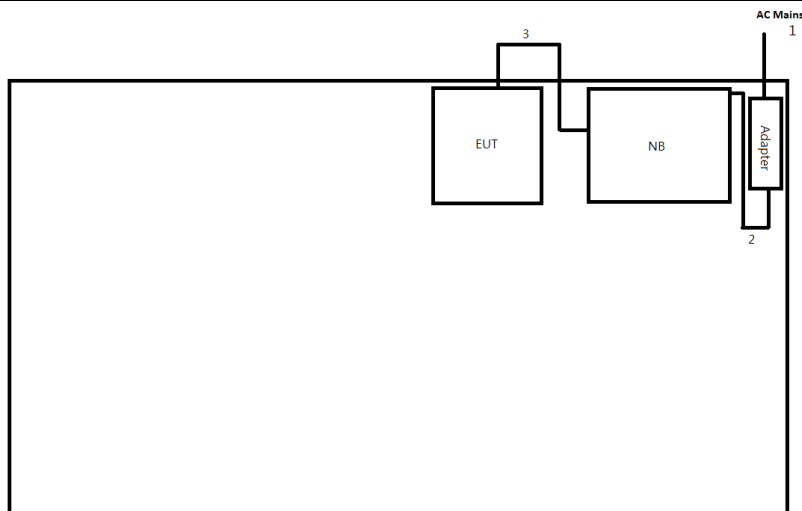
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Adapter (for NB)	HP	PPP009D	-	-
2	AC Power cable	Power sync	PW-GPC180-3	-	-
3	Notebook	HP	E5220	-	-
4	USB cable	Hawk_04	HTE120	-	-
5	AC Adapter	Apple	A1385	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Adapter (for NB)	HP	PPP009D	-	-
2	AC Power cable	Power sync	PW-GPC180-3	-	-
3	Notebook	HP	E5220	-	-
4	USB cable	Hawk_04	HTE120	-	-
5	AC Adapter	Apple	A1385	-	-

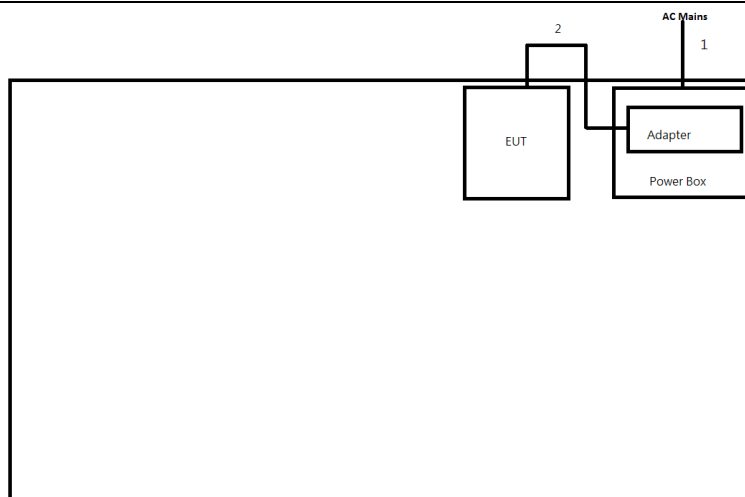
2.4 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test (Mode 1)

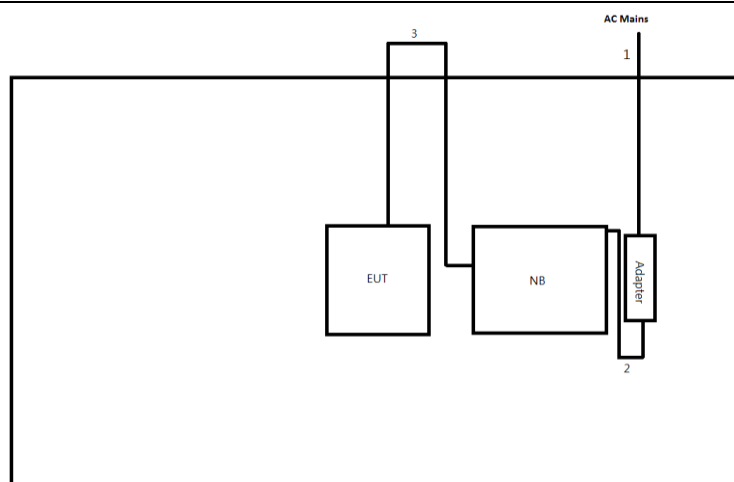


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-
3	USB cable	No	1.0	-

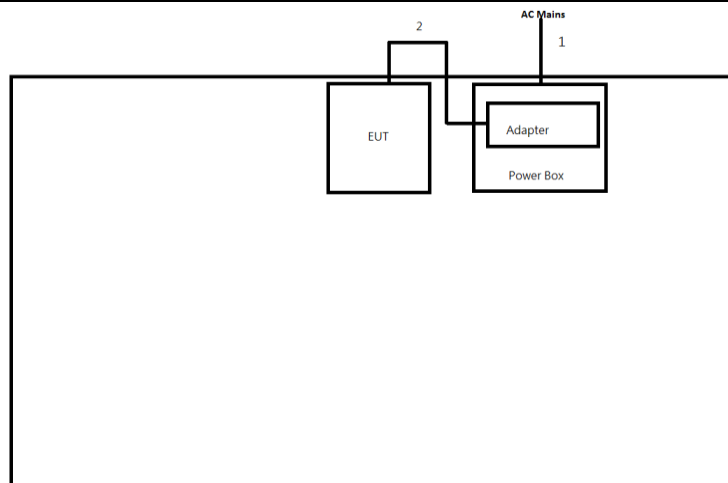
Test Setup Diagram – AC Line Conducted Emission Test (Mode 2)



Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB cable	No	1.0	-

Test Setup Diagram - Radiated Test (Mode 1)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	DC Power cable	No	1.8	-
3	USB cable	No	1.0	-

Test Setup Diagram - Radiated Test (Mode 2)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power cable	No	1.8	-
2	USB cable	No	1.0	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

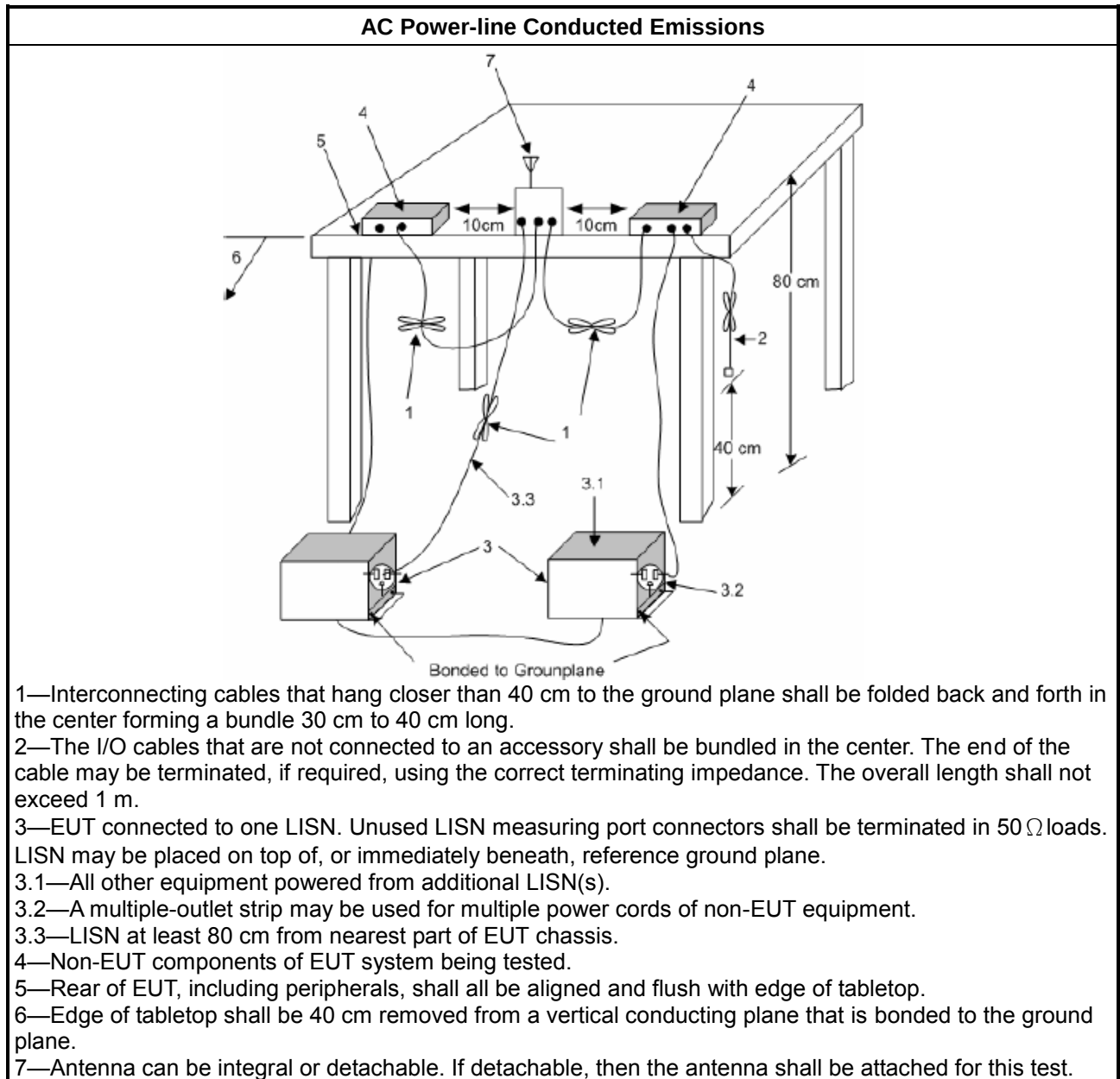
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) + AT(Attenuator).

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

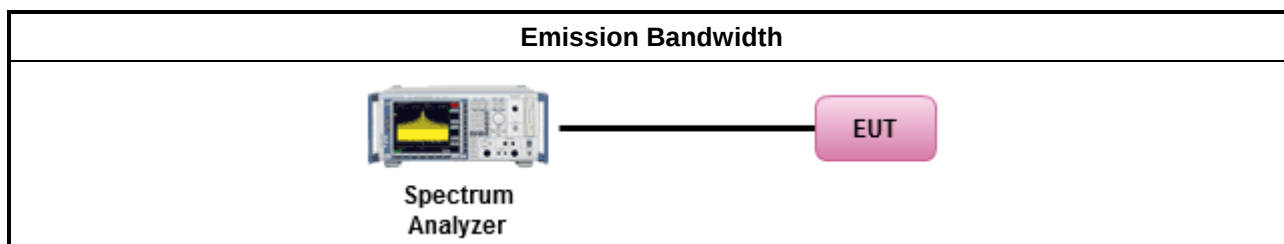
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

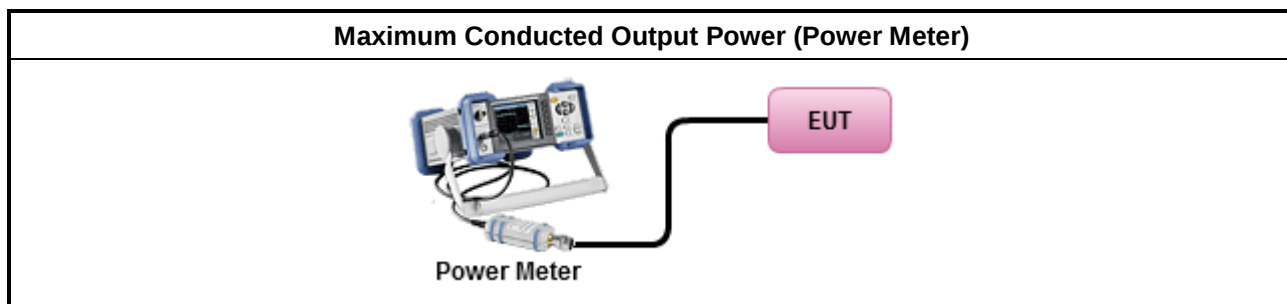
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit	
▪	Power Spectral Density (PSD) ≤ 8 dBm/3kHz

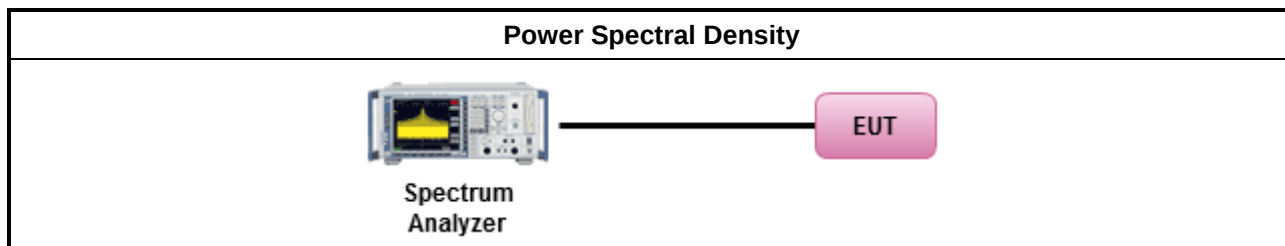
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

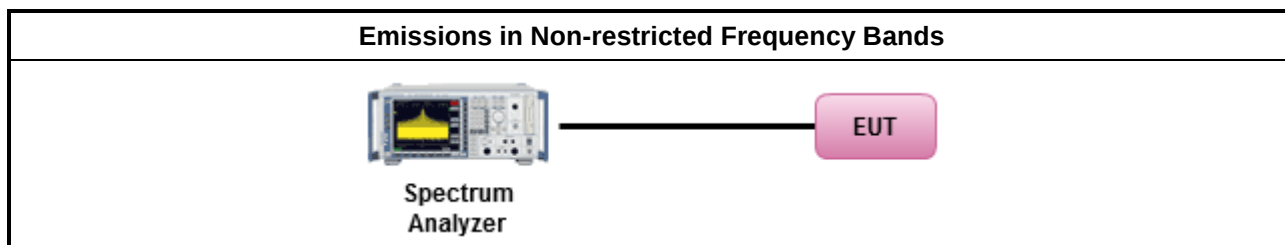
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

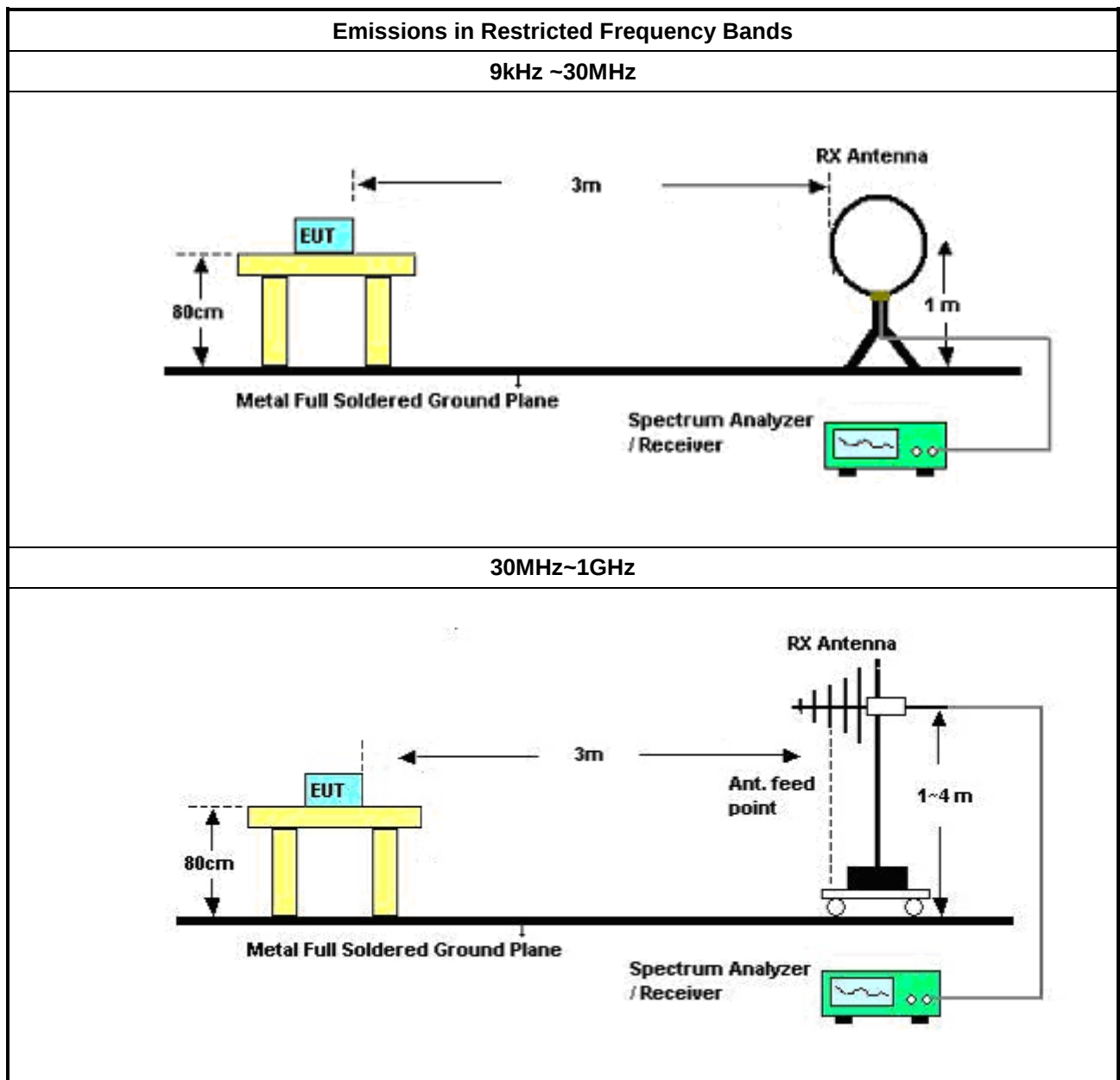
Test Method	
	The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].
	Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	For the transmitter unwanted emissions shall be measured using following options below:
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
	For the transmitter band-edge emissions shall be measured using following options below:
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
	Use the following spectrum analyzer settings:
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

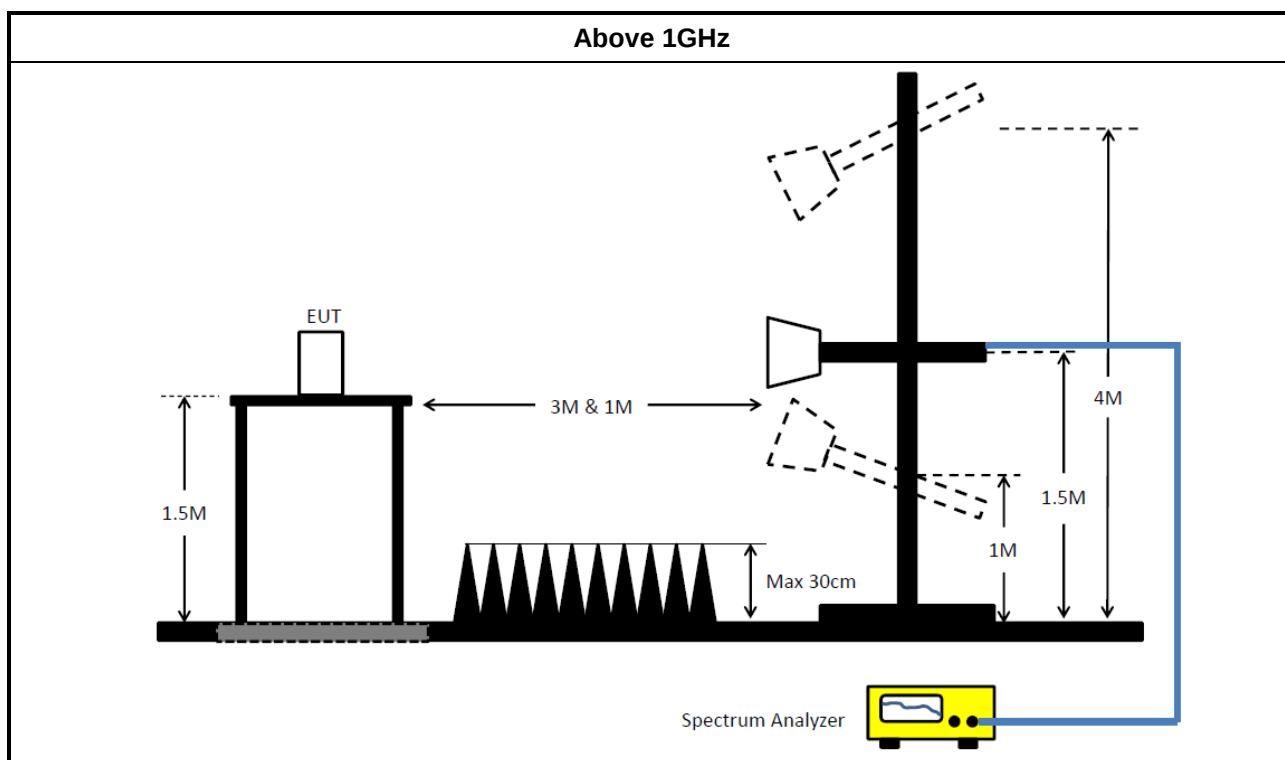
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.6.5 Test Setup





3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	21/May/2021	20/May/2022
Two-Line V-Network	R&S	ENV216	100003	9kHz ~ 30MHz	23/Dec/2021	22/Dec/2022
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9kHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.7	-	NCR	NCR

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	26/Mar/2021	25/Mar/2022
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	17/Dec/2021	16/Dec/2022
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	20/Dec/2021	19/Dec/2022
SENSE-15247-FS	Sporton	V5.10.7.13	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (Mode 1)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Microwave Premplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	09/Mar/2021	08/Mar/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022
SENSE-15247_FS	Sporton	V5.10.7.13	N/A	N/A	N/A	N/A

Instrument for Radiated Test (Mode 2)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	12/Mar/2021	11/Mar/2022
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2021	15/Mar/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022
SENSE-EMI	Sporton	V5.10.7.14	N/A	N/A	N/A	N/A

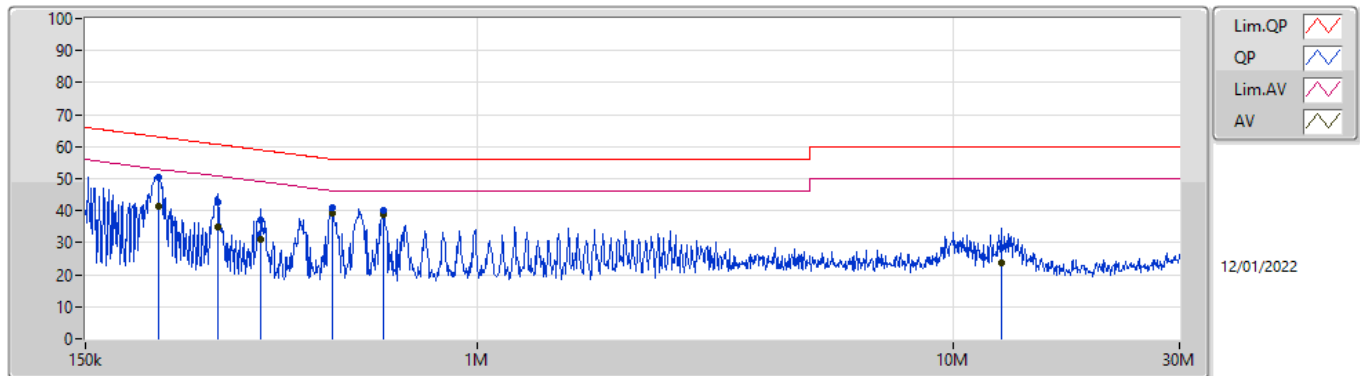
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	494.848k	39.32	46.10	-6.78	Line

Mode Configure

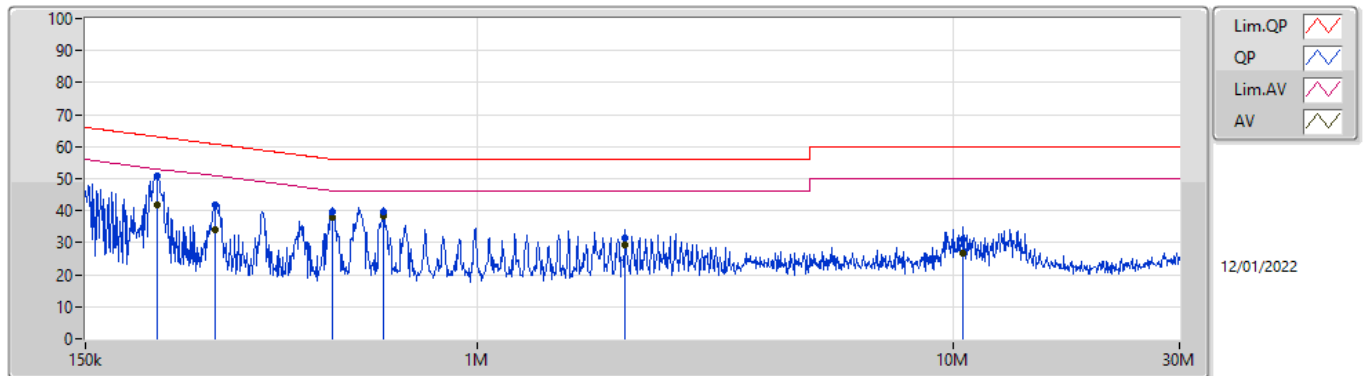
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	213.137k	50.40	63.07	-12.67	Line	-
Mode 1	Pass	AV	213.137k	41.56	53.07	-11.51	Line	-
Mode 1	Pass	QP	284.109k	42.46	60.70	-18.24	Line	-
Mode 1	Pass	AV	284.109k	34.98	50.70	-15.72	Line	-
Mode 1	Pass	QP	351.053k	37.06	58.94	-21.88	Line	-
Mode 1	Pass	AV	351.053k	31.19	48.94	-17.75	Line	-
Mode 1	Pass	QP	494.848k	41.09	56.10	-15.01	Line	-
Mode 1	Pass	AV	494.848k	39.32	46.10	-6.78	Line	-
Mode 1	Pass	QP	636.349k	39.99	56.00	-16.01	Line	-
Mode 1	Pass	AV	636.349k	38.60	46.00	-7.40	Line	-
Mode 1	Pass	QP	12.655M	28.33	60.00	-31.67	Line	-
Mode 1	Pass	AV	12.655M	23.76	50.00	-26.24	Line	-
Mode 1	Pass	QP	212.287k	50.84	63.11	-12.27	Neutral	-
Mode 1	Pass	AV	212.287k	41.78	53.11	-11.33	Neutral	-
Mode 1	Pass	QP	280.727k	41.85	60.80	-18.95	Neutral	-
Mode 1	Pass	AV	280.727k	34.12	50.80	-16.68	Neutral	-
Mode 1	Pass	QP	496.827k	39.62	56.06	-16.44	Neutral	-
Mode 1	Pass	AV	496.827k	37.95	46.06	-8.11	Neutral	-
Mode 1	Pass	QP	636.349k	39.84	56.00	-16.16	Neutral	-
Mode 1	Pass	AV	636.349k	38.49	46.00	-7.51	Neutral	-
Mode 1	Pass	QP	2.05M	31.55	56.00	-24.45	Neutral	-
Mode 1	Pass	AV	2.05M	29.29	46.00	-16.71	Neutral	-
Mode 1	Pass	QP	10.532M	30.93	60.00	-29.07	Neutral	-
Mode 1	Pass	AV	10.532M	26.75	50.00	-23.25	Neutral	-

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	213.137k	50.40	63.07	-12.67	19.56	Line	-	30.84	9.61	0.04	9.91			
AV	213.137k	41.56	53.07	-11.51	19.56	Line	-	22.00	9.61	0.04	9.91			
QP	284.109k	42.46	60.70	-18.24	19.56	Line	-	22.90	9.60	0.05	9.91			
AV	284.109k	34.98	50.70	-15.72	19.56	Line	-	15.42	9.60	0.05	9.91			
QP	351.053k	37.06	58.94	-21.88	19.57	Line	-	17.49	9.60	0.06	9.91			
AV	351.053k	31.19	48.94	-17.75	19.57	Line	-	11.62	9.60	0.06	9.91			
QP	494.848k	41.09	56.10	-15.01	19.57	Line	-	21.52	9.60	0.06	9.91			
AV	494.848k	39.32	46.10	-6.78	19.57	Line	-	19.75	9.60	0.06	9.91			
QP	636.349k	39.99	56.00	-16.01	19.60	Line	-	20.39	9.61	0.07	9.92			
AV	636.349k	38.60	46.00	-7.40	19.60	Line	-	19.00	9.61	0.07	9.92			
QP	12.655M	28.33	60.00	-31.67	19.90	Line	-	8.43	9.74	0.23	9.93			
AV	12.655M	23.76	50.00	-26.24	19.90	Line	-	3.86	9.74	0.23	9.93			

Conducted Emissions at Powerline_Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	212.287k	50.84	63.11	-12.27	19.55	Neutral	-	31.29	9.60	0.04	9.91			
AV	212.287k	41.78	53.11	-11.33	19.55	Neutral	-	22.23	9.60	0.04	9.91			
QP	280.727k	41.85	60.80	-18.95	19.56	Neutral	-	22.29	9.60	0.05	9.91			
AV	280.727k	34.12	50.80	-16.68	19.56	Neutral	-	14.56	9.60	0.05	9.91			
QP	496.827k	39.62	56.06	-16.44	19.57	Neutral	-	20.05	9.60	0.06	9.91			
AV	496.827k	37.95	46.06	-8.11	19.57	Neutral	-	18.38	9.60	0.06	9.91			
QP	636.349k	39.84	56.00	-16.16	19.60	Neutral	-	20.24	9.61	0.07	9.92			
AV	636.349k	38.49	46.00	-7.51	19.60	Neutral	-	18.89	9.61	0.07	9.92			
QP	2.05M	31.55	56.00	-24.45	19.64	Neutral	-	11.91	9.62	0.10	9.92			
AV	2.05M	29.29	46.00	-16.71	19.64	Neutral	-	9.65	9.62	0.10	9.92			
QP	10.532M	30.93	60.00	-29.07	19.92	Neutral	-	11.01	9.78	0.21	9.93			
AV	10.532M	26.75	50.00	-23.25	19.92	Neutral	-	6.83	9.78	0.21	9.93			



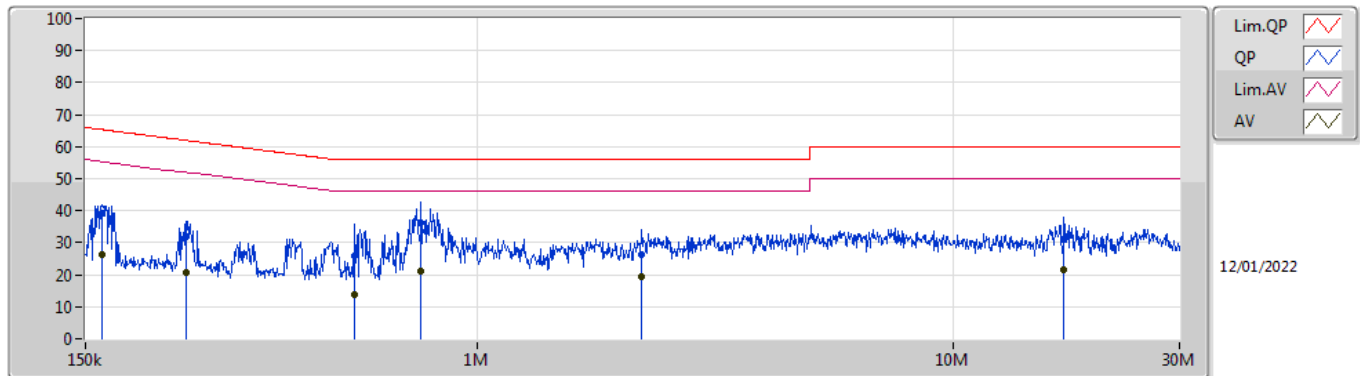
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 2	Pass	QP	761.574k	36.27	56.00	-19.73	Line

Result

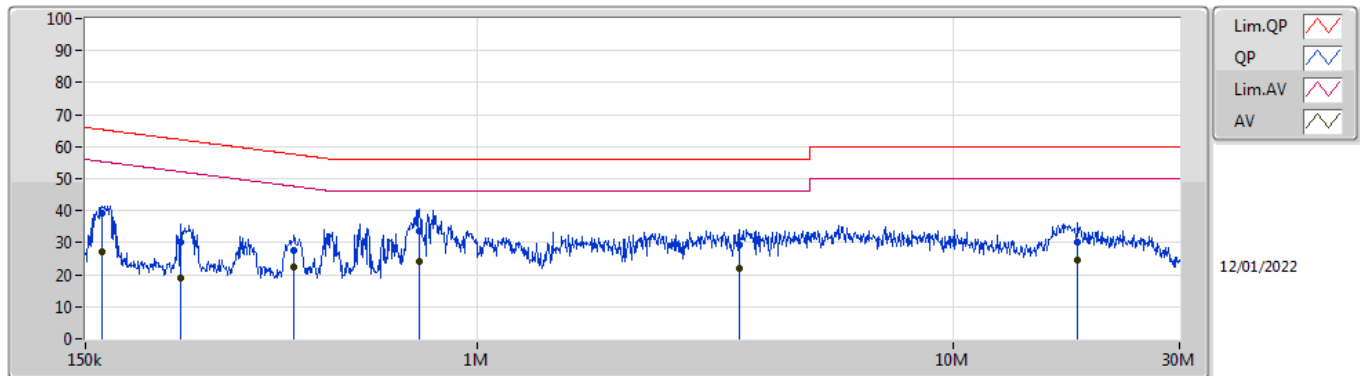
Mode	Result	Type	Freq (Hz)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Condition	Comments
Mode 2	Pass	QP	162.467k	39.24	65.33	-26.09	Line	-
Mode 2	Pass	AV	162.467k	26.34	55.33	-28.99	Line	-
Mode 2	Pass	QP	244.12k	31.97	61.95	-29.98	Line	-
Mode 2	Pass	AV	244.12k	20.89	51.95	-31.06	Line	-
Mode 2	Pass	QP	553.37k	25.82	56.00	-30.18	Line	-
Mode 2	Pass	AV	553.37k	13.69	46.00	-32.31	Line	-
Mode 2	Pass	QP	761.574k	36.27	56.00	-19.73	Line	-
Mode 2	Pass	AV	761.574k	21.14	46.00	-24.86	Line	-
Mode 2	Pass	QP	2.22M	26.31	56.00	-29.69	Line	-
Mode 2	Pass	AV	2.22M	19.61	46.00	-26.39	Line	-
Mode 2	Pass	QP	17.14M	30.83	60.00	-29.17	Line	-
Mode 2	Pass	AV	17.14M	21.64	50.00	-28.36	Line	-
Mode 2	Pass	QP	162.467k	39.05	65.33	-26.28	Neutral	-
Mode 2	Pass	AV	162.467k	26.98	55.33	-28.35	Neutral	-
Mode 2	Pass	QP	238.343k	30.29	62.16	-31.87	Neutral	-
Mode 2	Pass	AV	238.343k	19.18	52.16	-32.98	Neutral	-
Mode 2	Pass	QP	411.832k	27.60	57.61	-30.01	Neutral	-
Mode 2	Pass	AV	411.832k	22.54	47.61	-25.07	Neutral	-
Mode 2	Pass	QP	755.518k	33.74	56.00	-22.26	Neutral	-
Mode 2	Pass	AV	755.518k	24.31	46.00	-21.69	Neutral	-
Mode 2	Pass	QP	3.556M	29.11	56.00	-26.89	Neutral	-
Mode 2	Pass	AV	3.556M	22.17	46.00	-23.83	Neutral	-
Mode 2	Pass	QP	18.343M	29.96	60.00	-30.04	Neutral	-
Mode 2	Pass	AV	18.343M	24.54	50.00	-25.46	Neutral	-

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	162.467k	39.24	65.33	-26.09	19.56	Line	-	19.68	9.61	0.04	9.91			
AV	162.467k	26.34	55.33	-28.99	19.56	Line	-	6.78	9.61	0.04	9.91			
QP	244.12k	31.97	61.95	-29.98	19.57	Line	-	12.40	9.61	0.05	9.91			
AV	244.12k	20.89	51.95	-31.06	19.57	Line	-	1.32	9.61	0.05	9.91			
QP	553.37k	25.82	56.00	-30.18	19.58	Line	-	6.24	9.60	0.07	9.91			
AV	553.37k	13.69	46.00	-32.31	19.58	Line	-	-5.89	9.60	0.07	9.91			
QP	761.574k	36.27	56.00	-19.73	19.60	Line	-	16.67	9.61	0.07	9.92			
AV	761.574k	21.14	46.00	-24.86	19.60	Line	-	1.54	9.61	0.07	9.92			
QP	2.22M	26.31	56.00	-29.69	19.66	Line	-	6.65	9.63	0.11	9.92			
AV	2.22M	19.61	46.00	-26.39	19.66	Line	-	-0.05	9.63	0.11	9.92			
QP	17.14M	30.83	60.00	-29.17	19.93	Line	-	10.90	9.73	0.27	9.93			
AV	17.14M	21.64	50.00	-28.36	19.93	Line	-	1.71	9.73	0.27	9.93			

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	162.467k	39.05	65.33	-26.28	19.55	Neutral	-	19.50	9.60	0.04	9.91			
AV	162.467k	26.98	55.33	-28.35	19.55	Neutral	-	7.43	9.60	0.04	9.91			
QP	238.343k	30.29	62.16	-31.87	19.56	Neutral	-	10.73	9.60	0.05	9.91			
AV	238.343k	19.18	52.16	-32.98	19.56	Neutral	-	-0.38	9.60	0.05	9.91			
QP	411.832k	27.60	57.61	-30.01	19.57	Neutral	-	8.03	9.60	0.06	9.91			
AV	411.832k	22.54	47.61	-25.07	19.57	Neutral	-	2.97	9.60	0.06	9.91			
QP	755.518k	33.74	56.00	-22.26	19.60	Neutral	-	14.14	9.61	0.07	9.92			
AV	755.518k	24.31	46.00	-21.69	19.60	Neutral	-	4.71	9.61	0.07	9.92			
QP	3.556M	29.11	56.00	-26.89	19.69	Neutral	-	9.42	9.64	0.13	9.92			
AV	3.556M	22.17	46.00	-23.83	19.69	Neutral	-	2.48	9.64	0.13	9.92			
QP	18.343M	29.96	60.00	-30.04	20.07	Neutral	-	9.89	9.86	0.28	9.93			
AV	18.343M	24.54	50.00	-25.46	20.07	Neutral	-	4.47	9.86	0.28	9.93			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-LE(1Mbps)	686.25k	1.047M	1M05F1D	686.25k	1.038M
BT-LE(2Mbps)	1.255M	2.034M	2M03F1D	1.245M	2.026M
BT-LE(125kbps)	698.75k	1.062M	1M06F1D	690k	1.058M
BT-LE(500kbps)	665k	1.032M	1M03F1D	662.5k	1.028M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

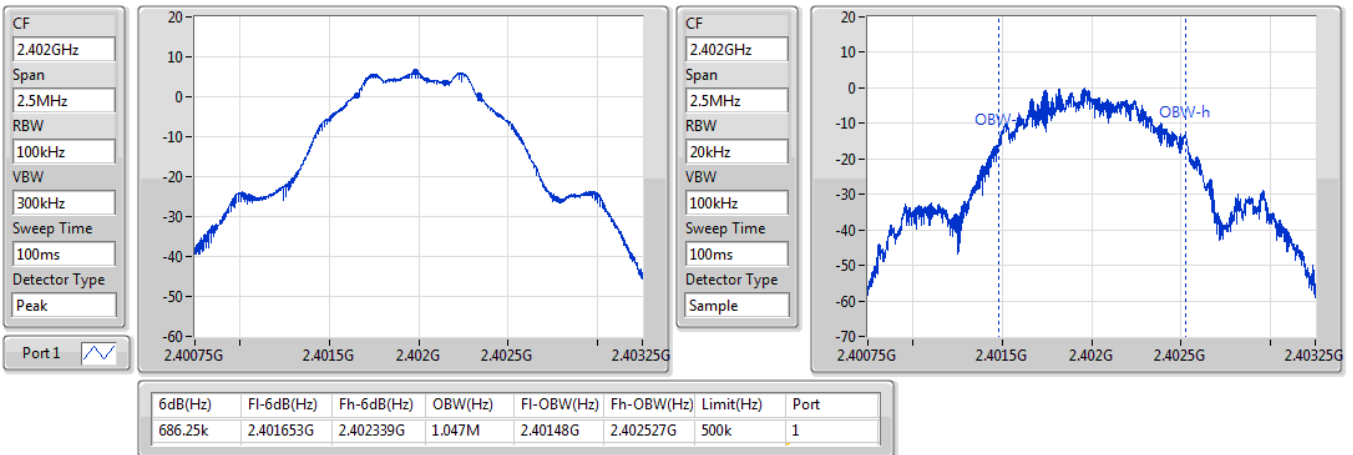
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	686.25k	1.047M
2440MHz	Pass	500k	686.25k	1.038M
2480MHz	Pass	500k	686.25k	1.046M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.245M	2.026M
2440MHz	Pass	500k	1.255M	2.026M
2480MHz	Pass	500k	1.245M	2.034M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	690k	1.059M
2440MHz	Pass	500k	695k	1.058M
2480MHz	Pass	500k	698.75k	1.062M
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	500k	665k	1.031M
2440MHz	Pass	500k	662.5k	1.032M
2480MHz	Pass	500k	662.5k	1.028M

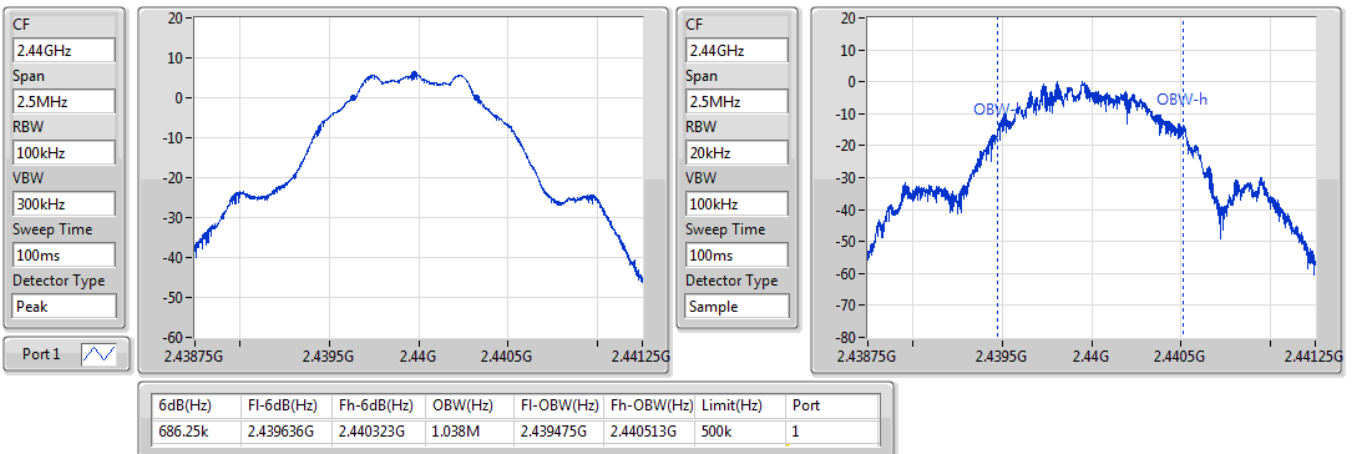
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

BT-LE(1Mbps)
2402MHz
EBW-DTS

14/01/2022

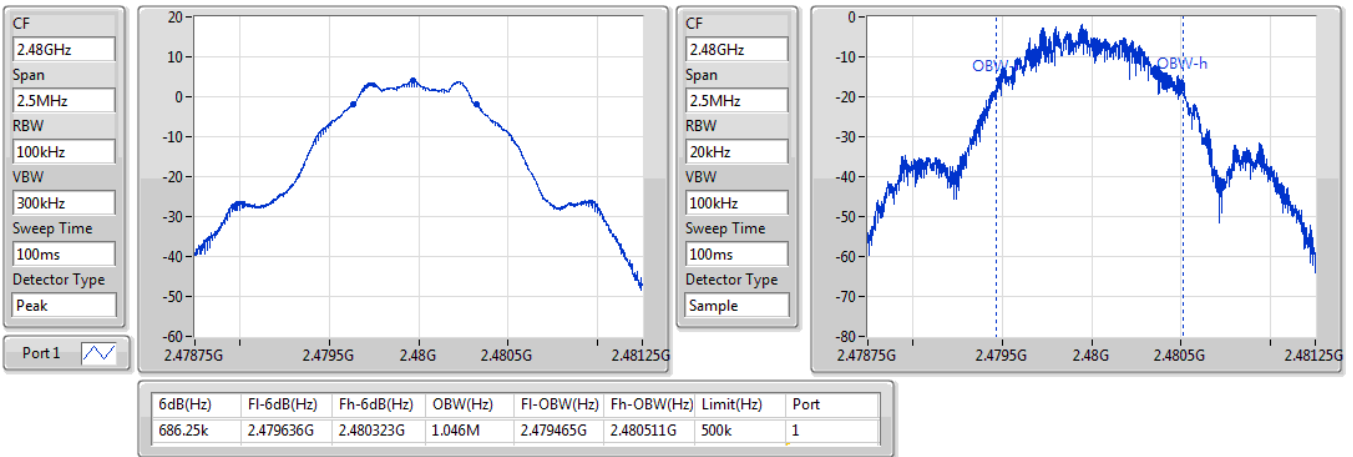

BT-LE(1Mbps)
2440MHz
EBW-DTS

14/01/2022

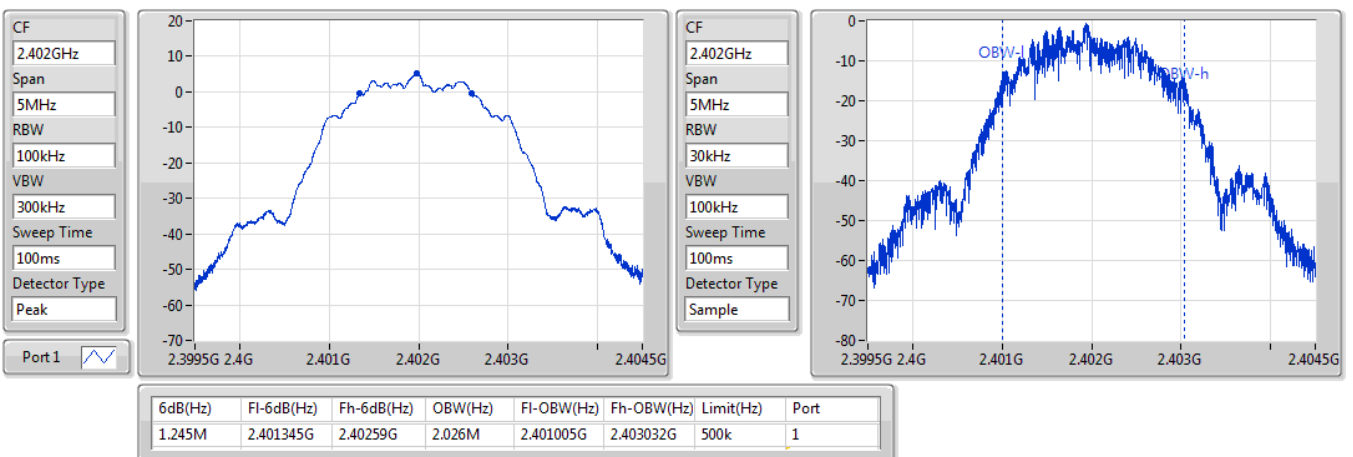


BT-LE(1Mbps)
EBW-DTS
2480MHz

14/01/2022


BT-LE(2Mbps)
EBW-DTS
2402MHz

14/01/2022

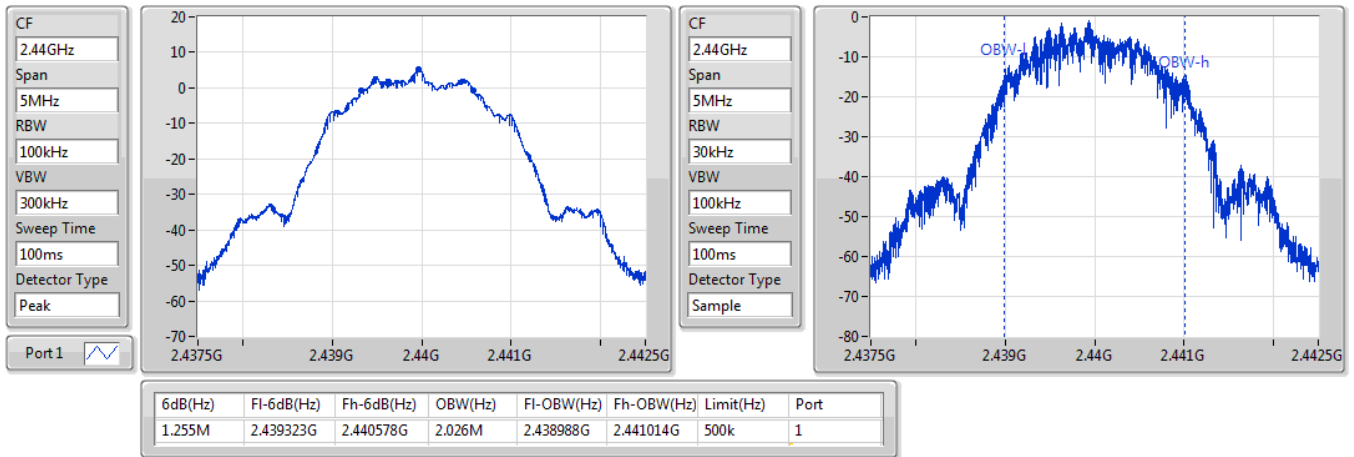


BT-LE(2Mbps)

2440MHz

EBW-DTS

14/01/2022

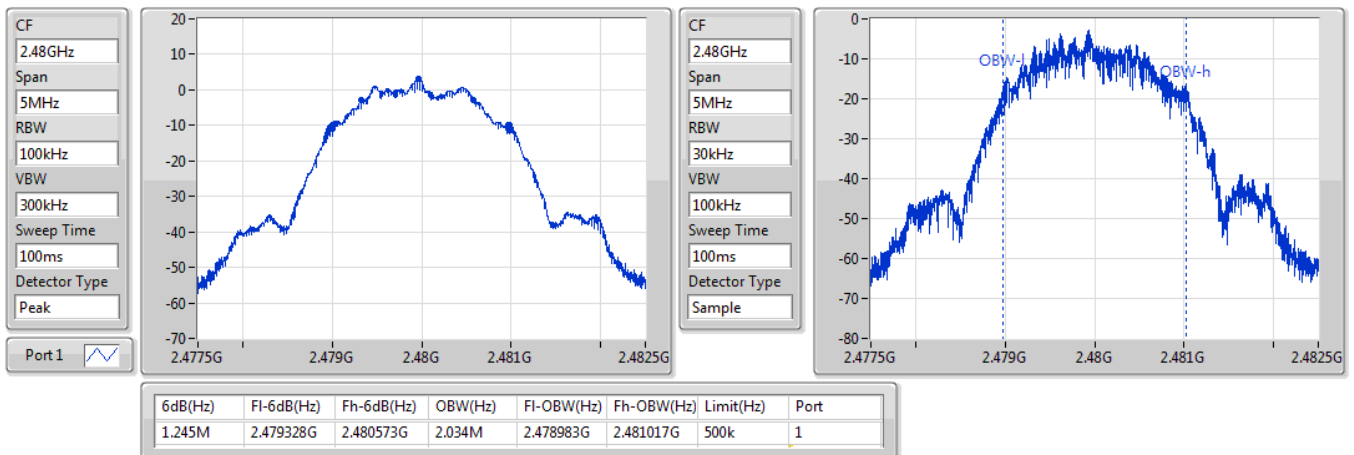


BT-LE(2Mbps)

2480MHz

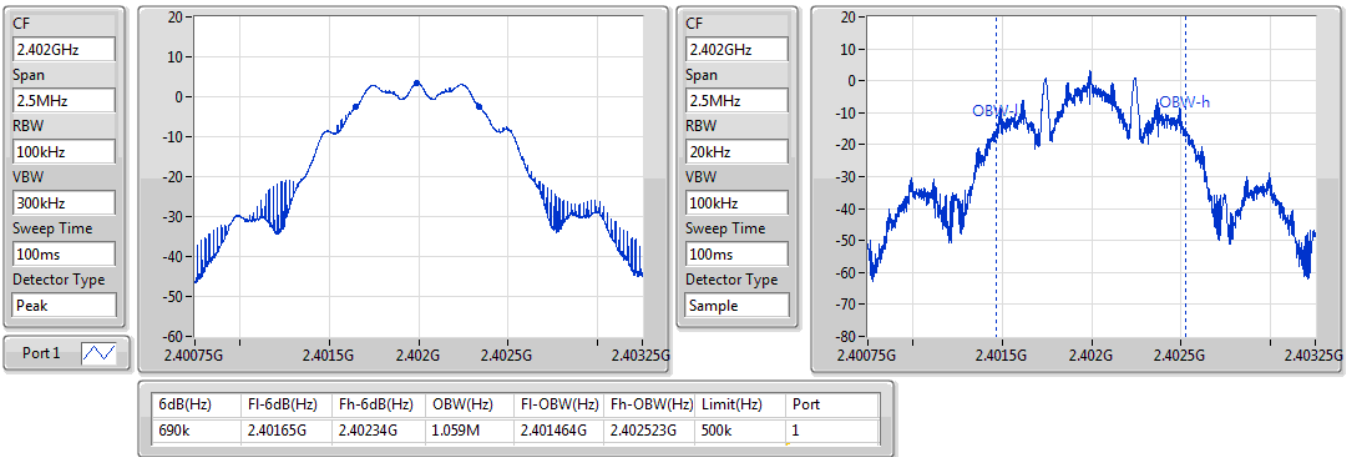
EBW-DTS

14/01/2022

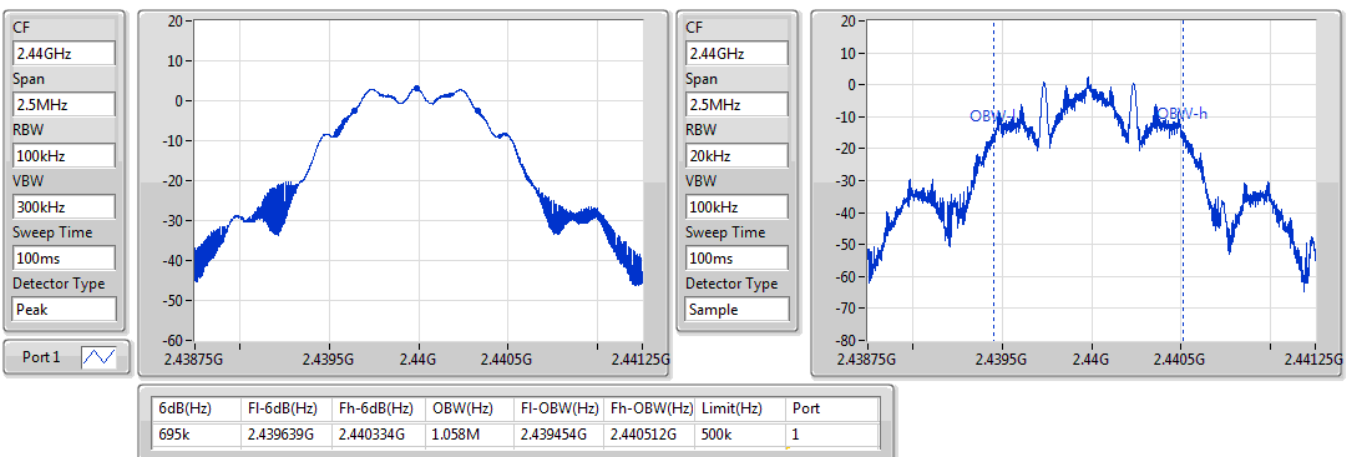


BT-LE(125kbps)
2402MHz
EBW-DTS

14/01/2022


BT-LE(125kbps)
2440MHz
EBW-DTS

14/01/2022

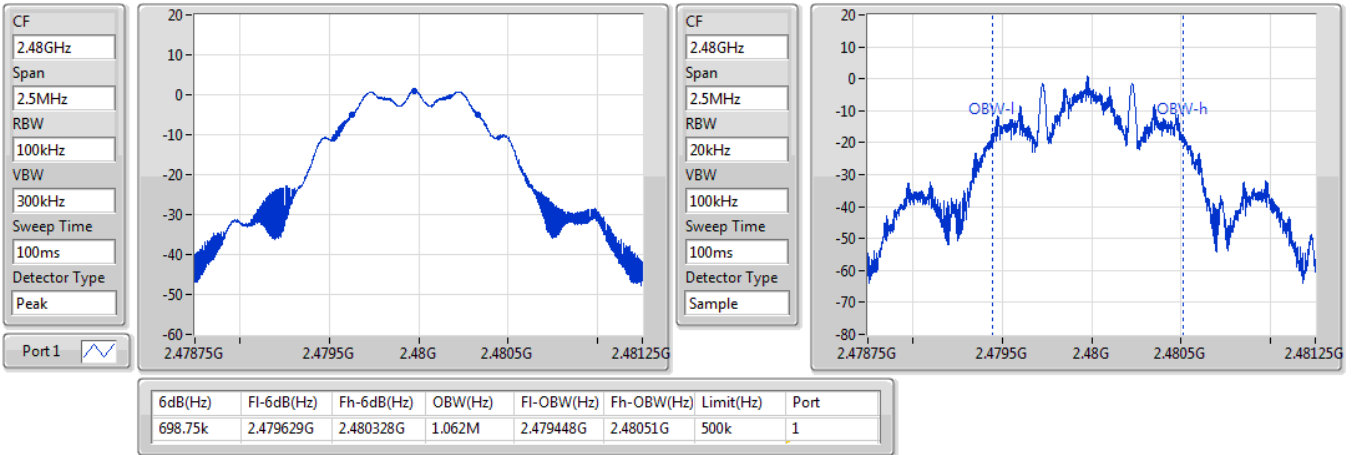


BT-LE(125kbps)

2480MHz

EBW-DTS

14/01/2022

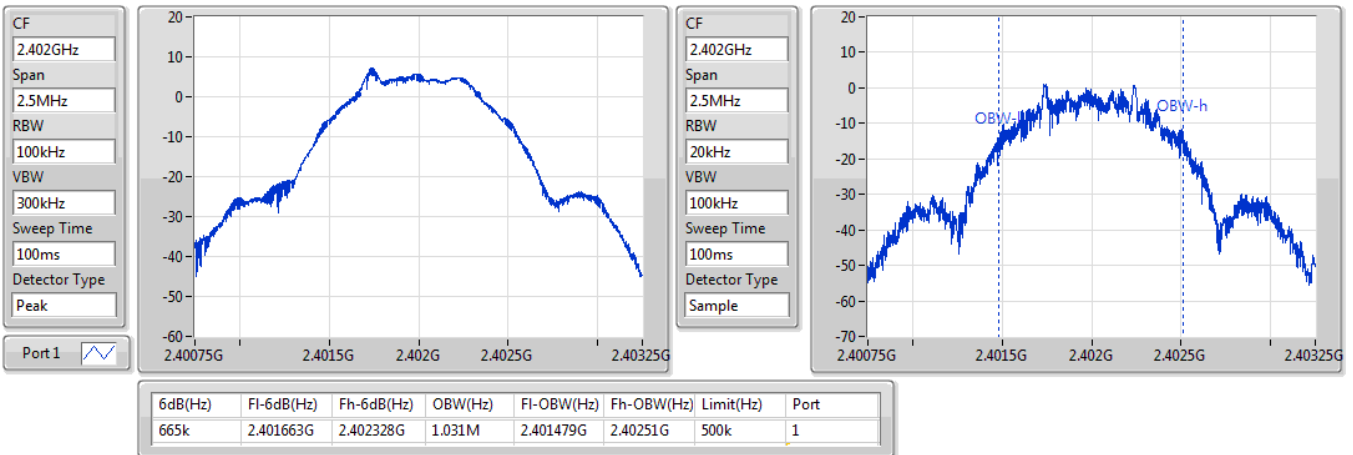


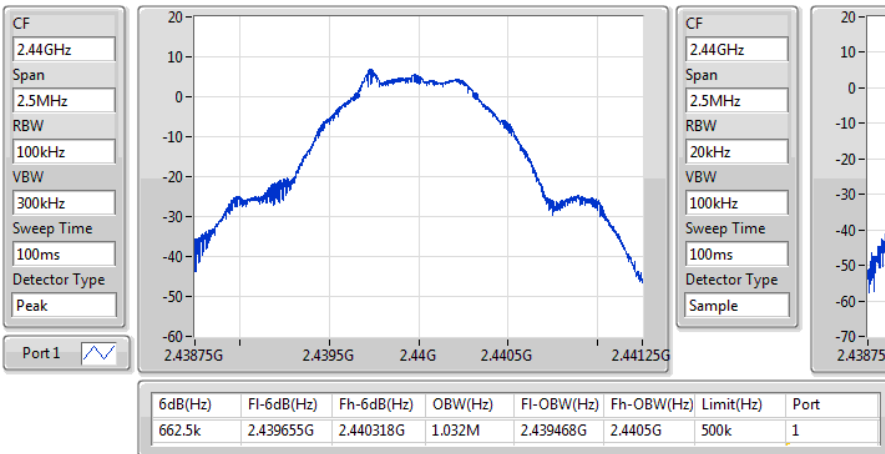
BT-LE(500kbps)

2402MHz

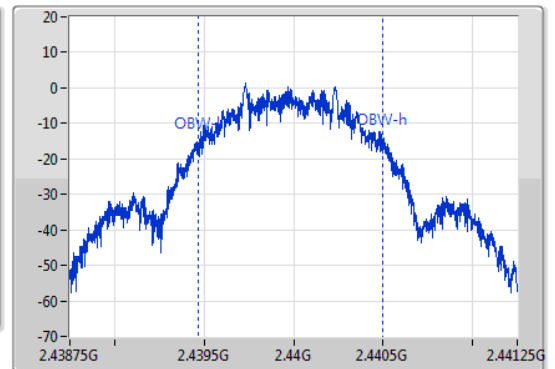
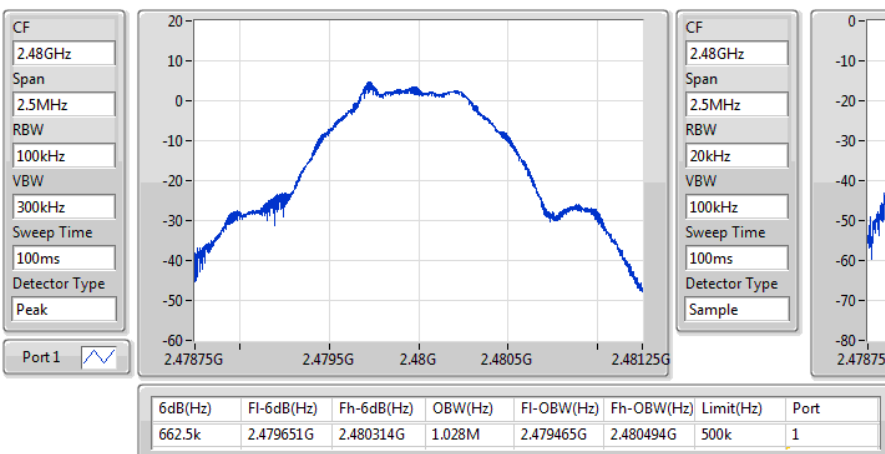
EBW-DTS

14/01/2022

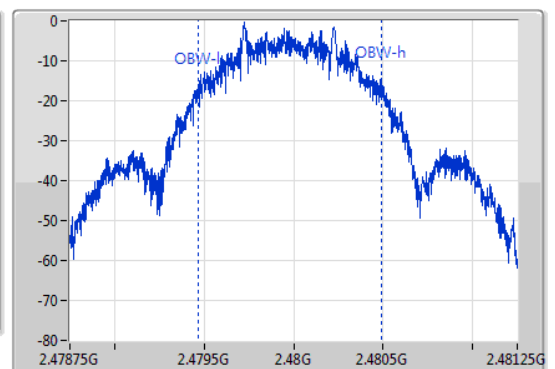


BT-LE(500kbps)
2440MHz

EBW-DTS

14/01/2022


BT-LE(500kbps)
2480MHz

EBW-DTS

14/01/2022





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	7.67	0.00585
BT-LE(2Mbps)	7.55	0.00569
BT-LE(125kbps)	8.08	0.00643
BT-LE(500kbps)	7.64	0.00581



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	0.72	7.67	30.00
2440MHz	Pass	0.72	6.93	30.00
2480MHz	Pass	0.72	5.45	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	0.72	7.55	30.00
2440MHz	Pass	0.72	7.16	30.00
2480MHz	Pass	0.72	5.12	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	0.72	8.08	30.00
2440MHz	Pass	0.72	7.66	30.00
2480MHz	Pass	0.72	5.57	30.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	0.72	7.64	30.00
2440MHz	Pass	0.72	7.31	30.00
2480MHz	Pass	0.72	5.37	30.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.29
BT-LE(2Mbps)	-11.98
BT-LE(125kbps)	0.60
BT-LE(500kbps)	0.30

RBW = 3kHz;

Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	0.72	-9.47	8.00
2440MHz	Pass	0.72	-9.29	8.00
2480MHz	Pass	0.72	-11.37	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	0.72	-12.29	8.00
2440MHz	Pass	0.72	-11.98	8.00
2480MHz	Pass	0.72	-13.66	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	0.72	0.60	8.00
2440MHz	Pass	0.72	0.28	8.00
2480MHz	Pass	0.72	-1.80	8.00
BT-LE(500kbps)	-	-	-	-
2402MHz	Pass	0.72	0.30	8.00
2440MHz	Pass	0.72	-0.16	8.00
2480MHz	Pass	0.72	-2.04	8.00

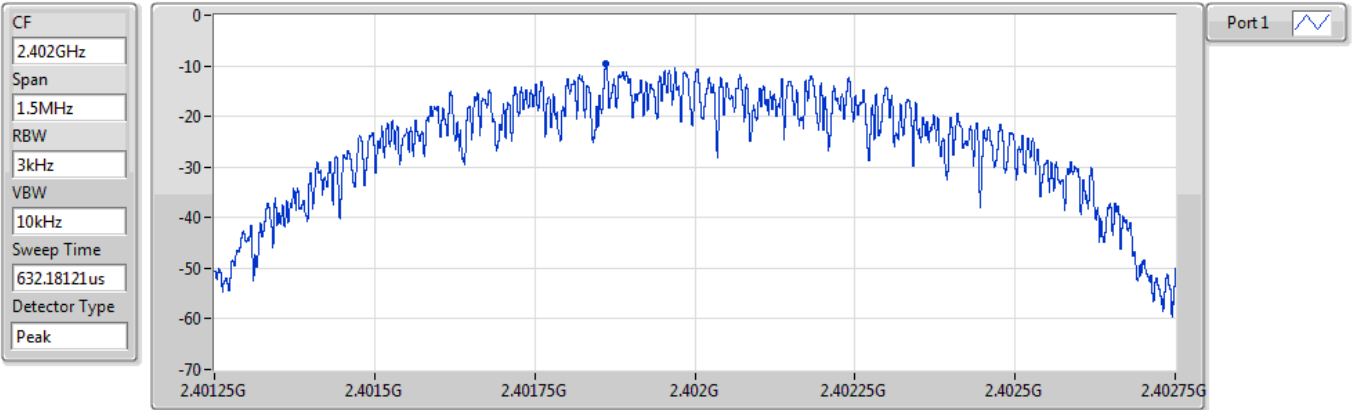
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

BT-LE(1Mbps)

PSD

2402MHz

14/01/2022



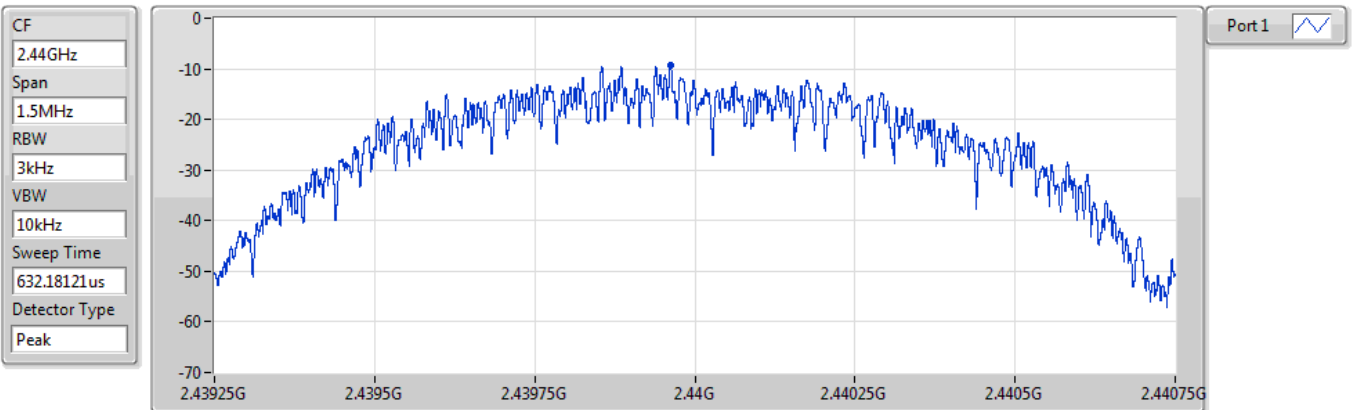
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.47	-9.47	-9.47

BT-LE(1Mbps)

PSD

2440MHz

14/01/2022



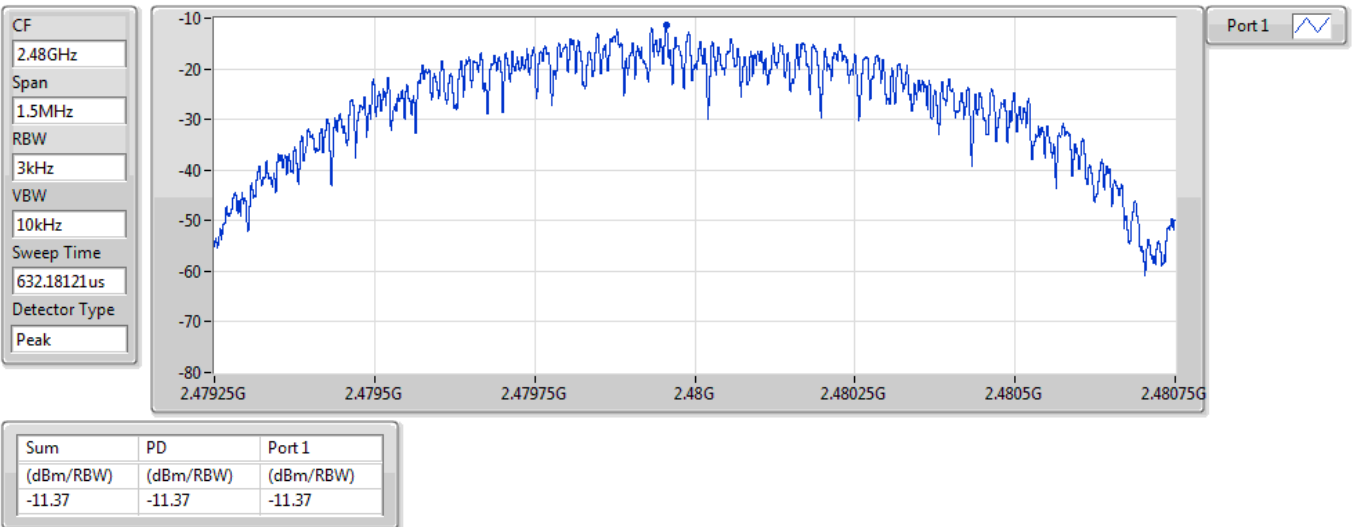
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.29	-9.29	-9.29

BT-LE(1Mbps)

PSD

2480MHz

14/01/2022

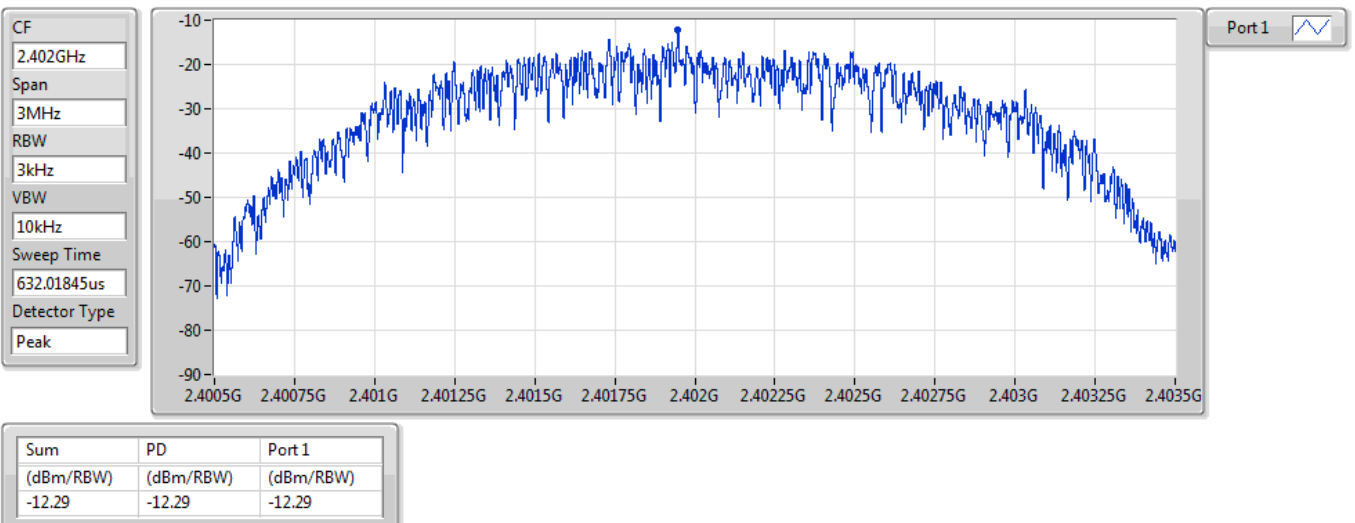


BT-LE(2Mbps)

PSD

2402MHz

14/01/2022

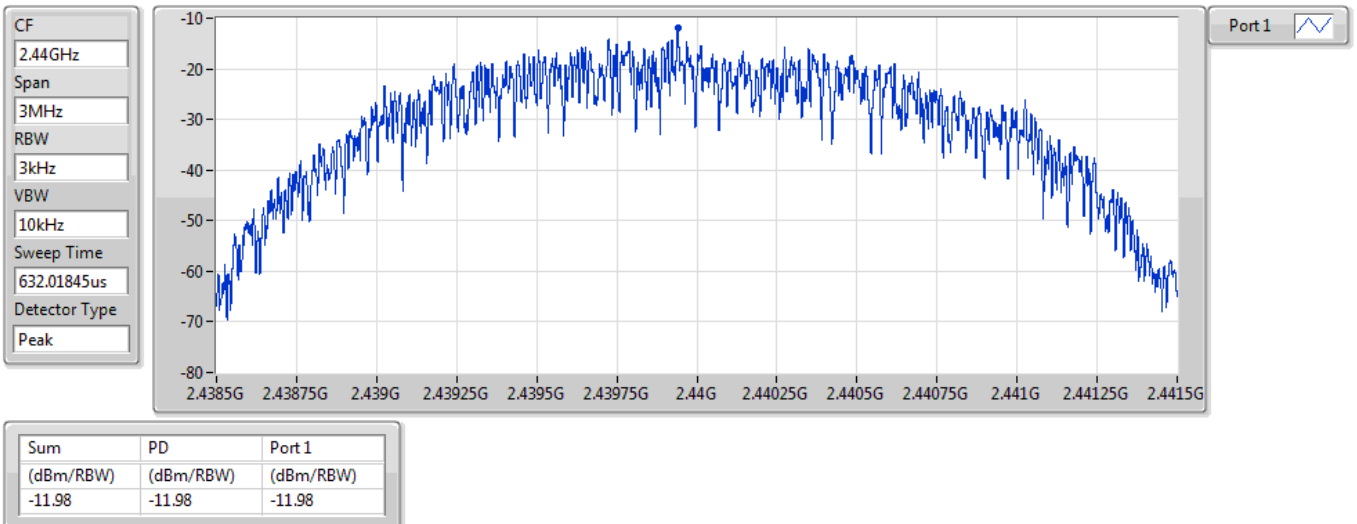


BT-LE(2Mbps)

PSD

2440MHz

14/01/2022

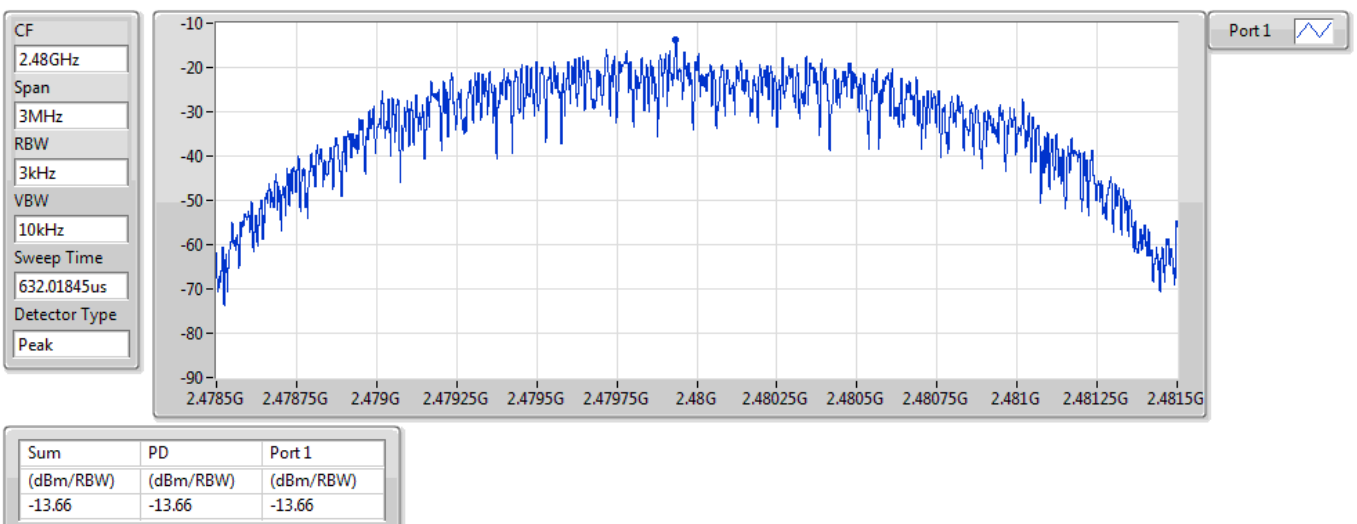


BT-LE(2Mbps)

PSD

2480MHz

14/01/2022

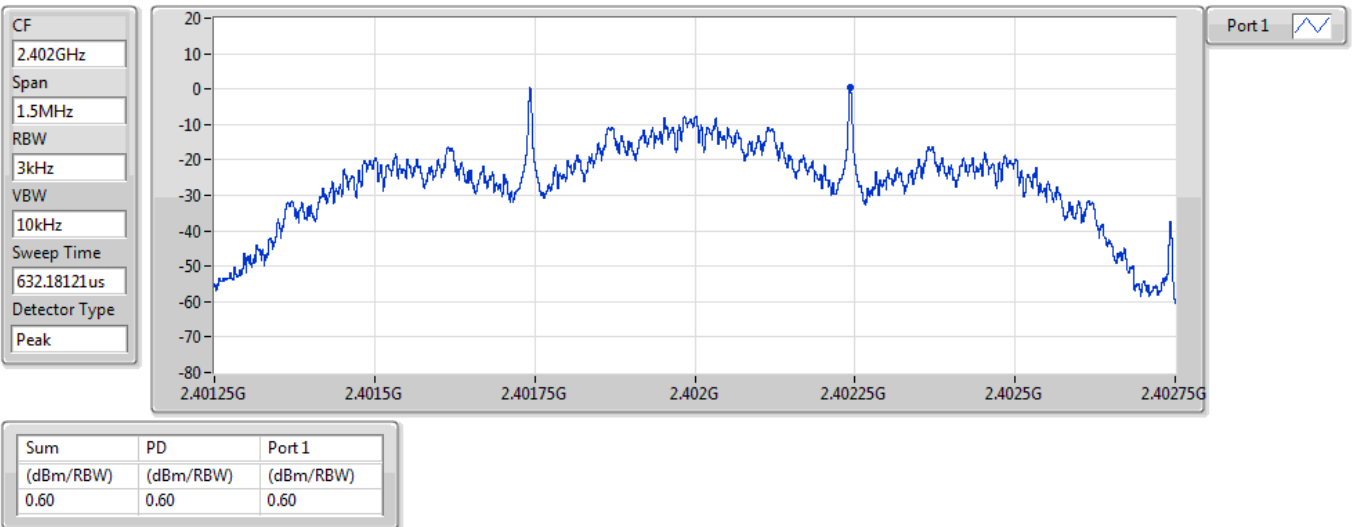


BT-LE(125kbps)

PSD

2402MHz

14/01/2022

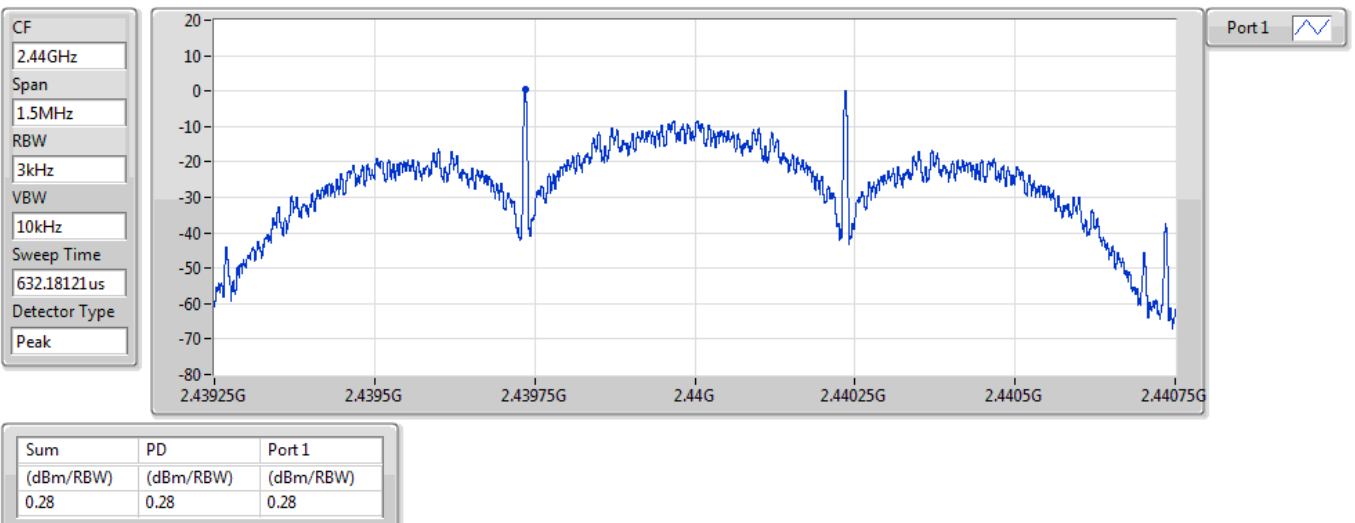


BT-LE(125kbps)

PSD

2440MHz

14/01/2022

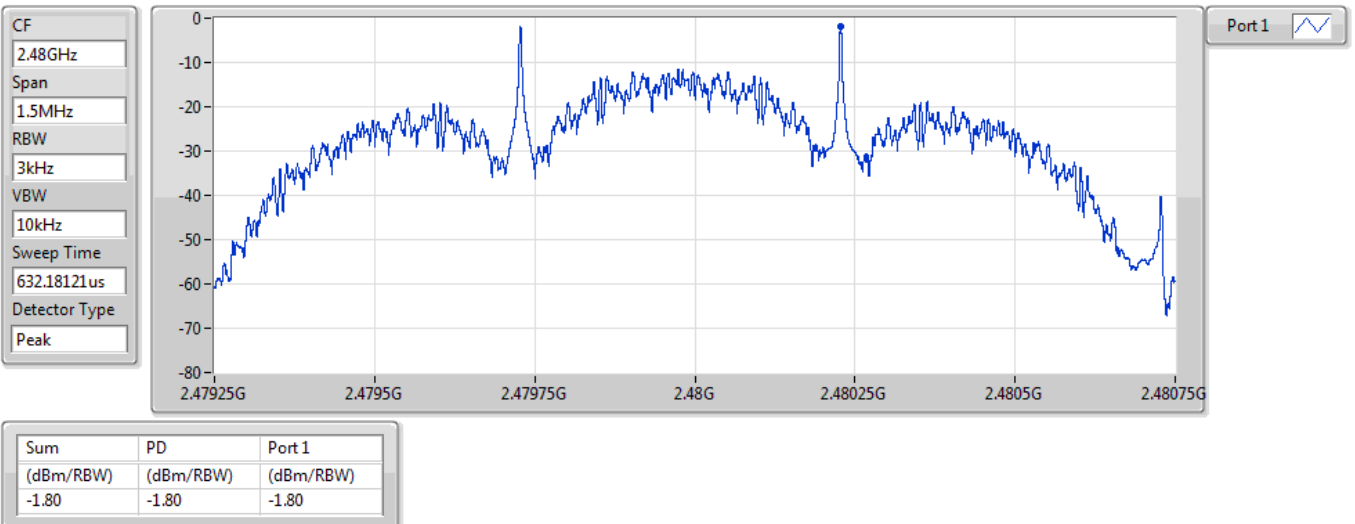


BT-LE(125kbps)

PSD

2480MHz

14/01/2022

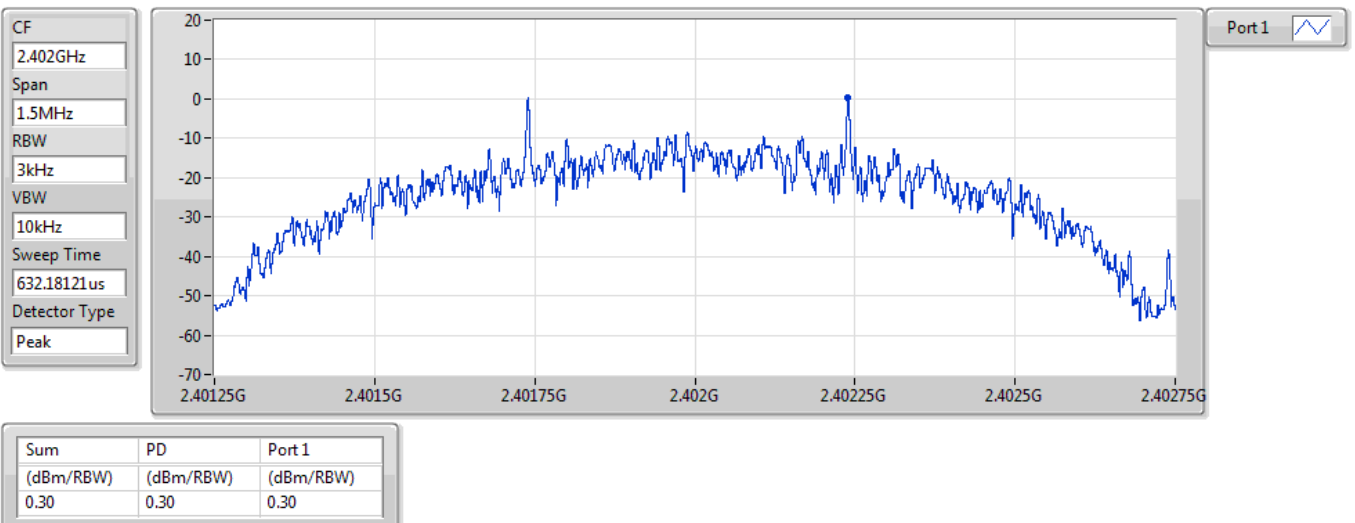


BT-LE(500kbps)

PSD

2402MHz

14/01/2022

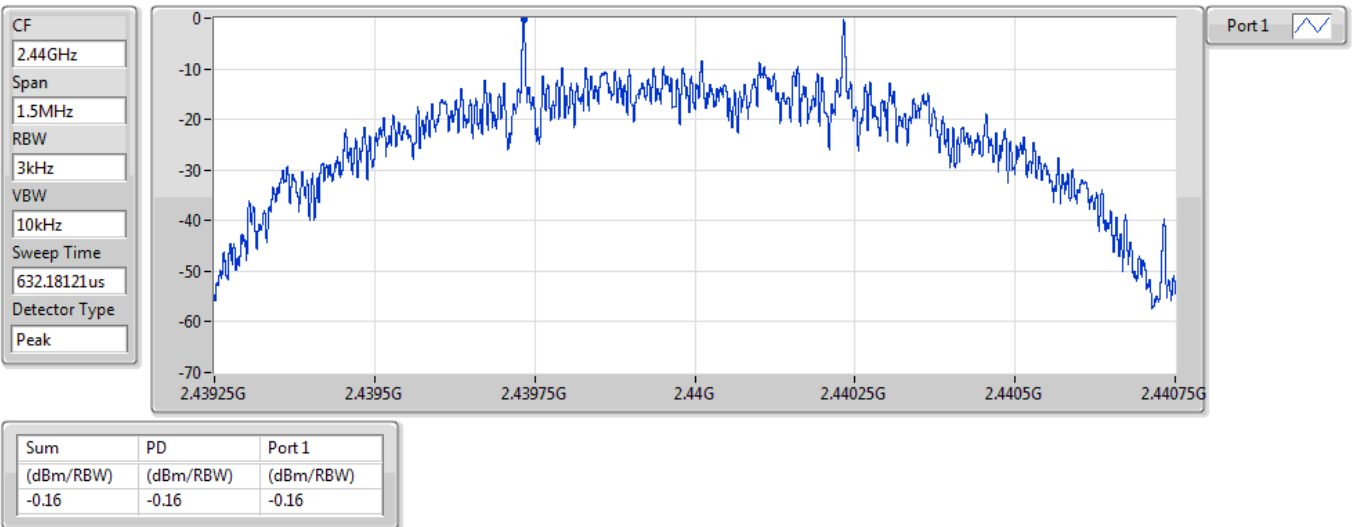


BT-LE(500kbps)

PSD

2440MHz

14/01/2022

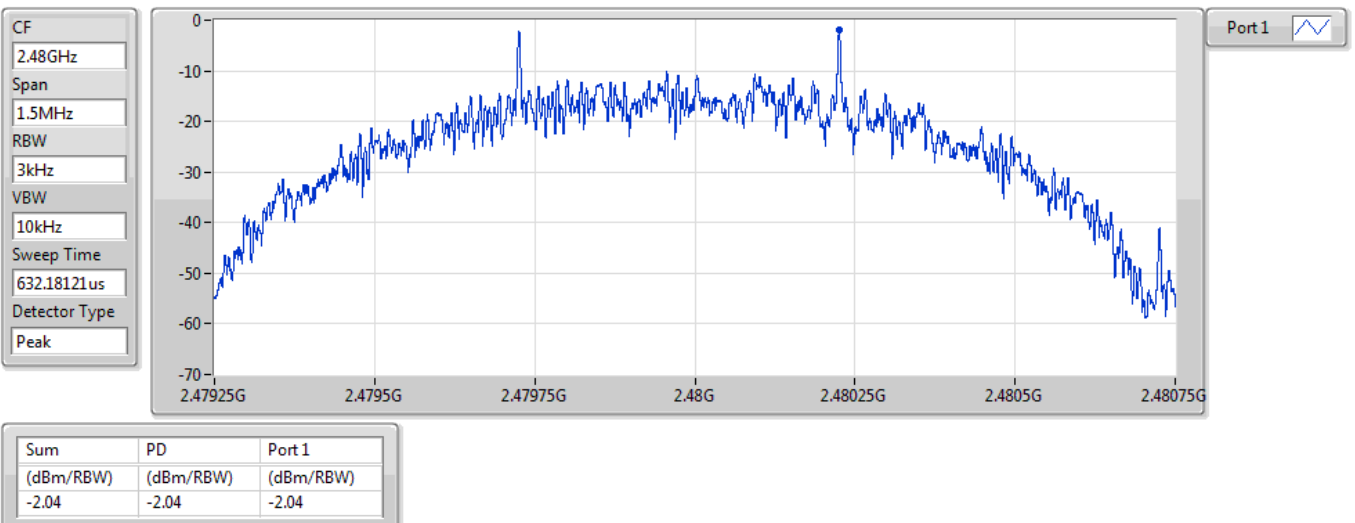


BT-LE(500kbps)

PSD

2480MHz

14/01/2022





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.40196G	5.39	-24.61	2.13384G	-55.32	2.39506G	-54.08	2.4835G	-55.90	2.49368G	-52.93	23.1806G	-43.12	1
BT-LE(2Mbps)	Pass	2.40196G	4.46	-25.54	2.1027G	-56.16	2.39998G	-38.28	2.4G	-39.33	2.50241G	-52.67	23.25652G	-43.24	1
BT-LE(125kbps)	Pass	2.40196G	2.39	-27.61	1.9899G	-55.91	2.39714G	-54.29	2.4G	-55.43	2.49922G	-53.65	17.00812G	-43.43	1
BT-LE(500kbps)	Pass	2.40171G	5.12	-24.88	1.96082G	-55.43	2.3928G	-54.82	2.4G	-56.36	2.50337G	-53.26	16.87876G	-42.79	1

Result

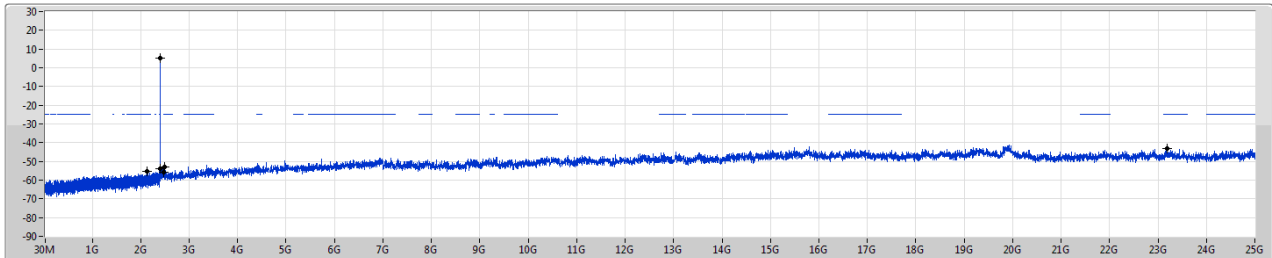
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40196G	5.39	-24.61	2.13384G	-55.32	2.39506G	-54.08	2.4835G	-55.90	2.49368G	-52.93	23.1806G	-43.12	1
2440MHz	Pass	2.40196G	5.39	-24.61	2.18642G	-54.89	2.39621G	-54.44	2.4835G	-56.15	2.4979G	-53.34	17.53679G	-42.73	1
2480MHz	Pass	2.40196G	5.39	-24.61	2.10564G	-55.32	2.39066G	-53.71	2.4G	-56.07	2.49628G	-53.47	16.58912G	-43.25	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40196G	4.46	-25.54	2.1027G	-56.16	2.39998G	-38.28	2.4G	-39.33	2.50241G	-52.67	23.25652G	-43.24	1
2440MHz	Pass	2.40196G	4.46	-25.54	2.1121G	-55.62	2.39006G	-54.04	2.4835G	-57.73	2.50106G	-53.52	16.29667G	-43.42	1
2480MHz	Pass	2.40196G	4.46	-25.54	2.1356G	-55.88	2.39377G	-54.94	2.4835G	-54.55	2.50093G	-53.78	23.23121G	-43.24	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40196G	2.39	-27.61	1.9899G	-55.91	2.39714G	-54.29	2.4G	-55.43	2.49922G	-53.65	17.00812G	-43.43	1
2440MHz	Pass	2.40196G	2.39	-27.61	1.86329G	-54.89	2.39592G	-54.48	2.4835G	-56.40	2.4934G	-53.67	16.38384G	-43.17	1
2480MHz	Pass	2.40196G	2.39	-27.61	2.14764G	-55.33	2.39872G	-54.66	2.4835G	-56.37	2.50275G	-54.07	16.99968G	-42.48	1
BT-LE(500kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40171G	5.12	-24.88	2.12356G	-55.02	2.39481G	-54.20	2.4835G	-55.57	2.48815G	-53.48	16.57225G	-43.14	1
2440MHz	Pass	2.40171G	5.12	-24.88	2.14823G	-55.09	2.39817G	-54.26	2.4835G	-56.30	2.49124G	-53.81	16.73254G	-42.38	1
2480MHz	Pass	2.40171G	5.12	-24.88	1.96082G	-55.43	2.3928G	-54.82	2.4G	-56.36	2.50337G	-53.26	16.87876G	-42.79	1

BT-LE(1Mbps)

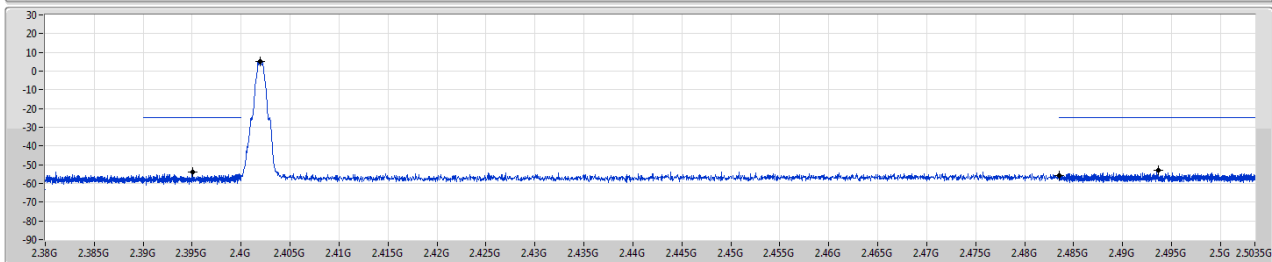
CSEndB-DTS

2402MHz

14/01/2022



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

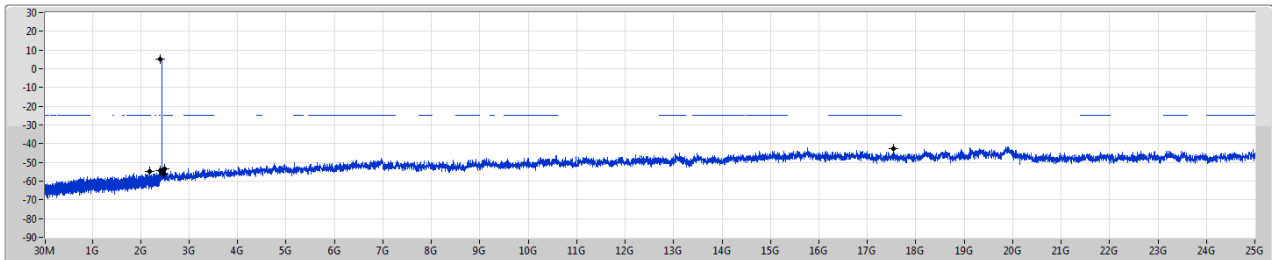
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40196G	5.39	-24.61	2.13384G	-55.32	2.39506G	-54.08	2.4835G	-55.90	2.49368G	-52.93	2.51806G	-43.12	1

BT-LE(1Mbps)

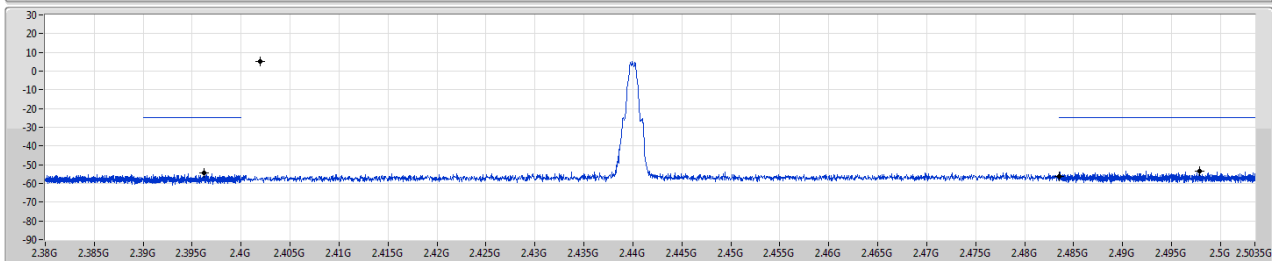
CSEndB-DTS

2440MHz

14/01/2022



Port1



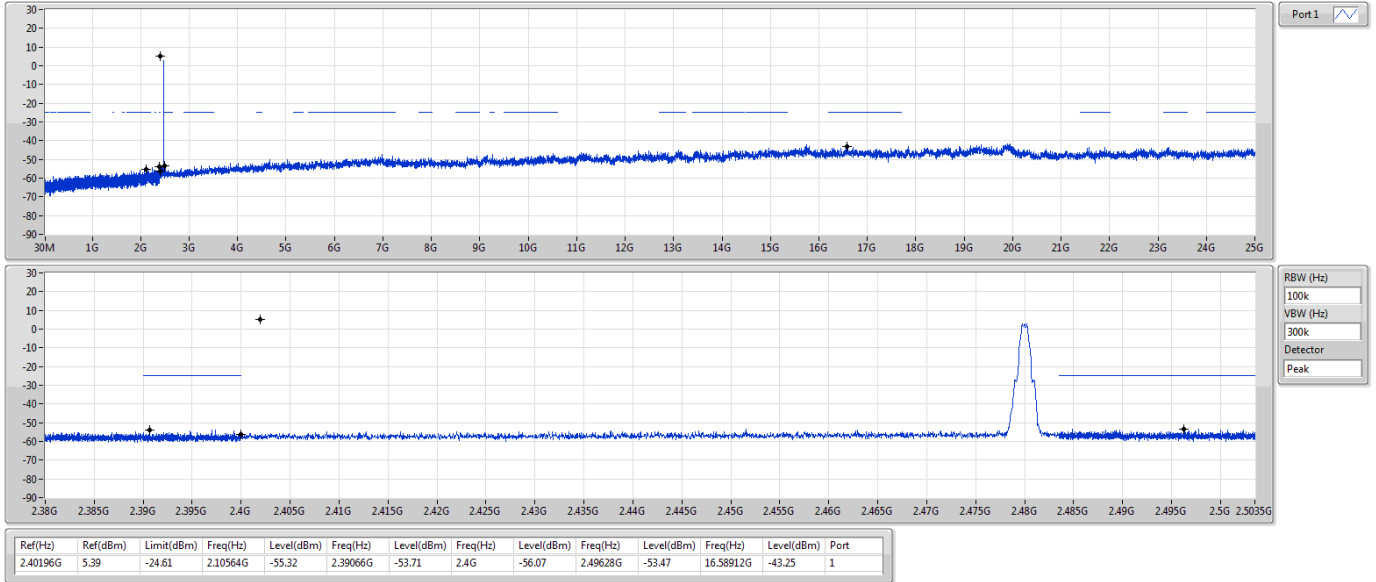
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40196G	5.39	-24.61	2.18642G	-54.89	2.39621G	-54.44	2.4835G	-56.15	2.4979G	-53.34	2.53679G	-42.73	1

BT-LE(1Mbps)

CSEndB-DTS

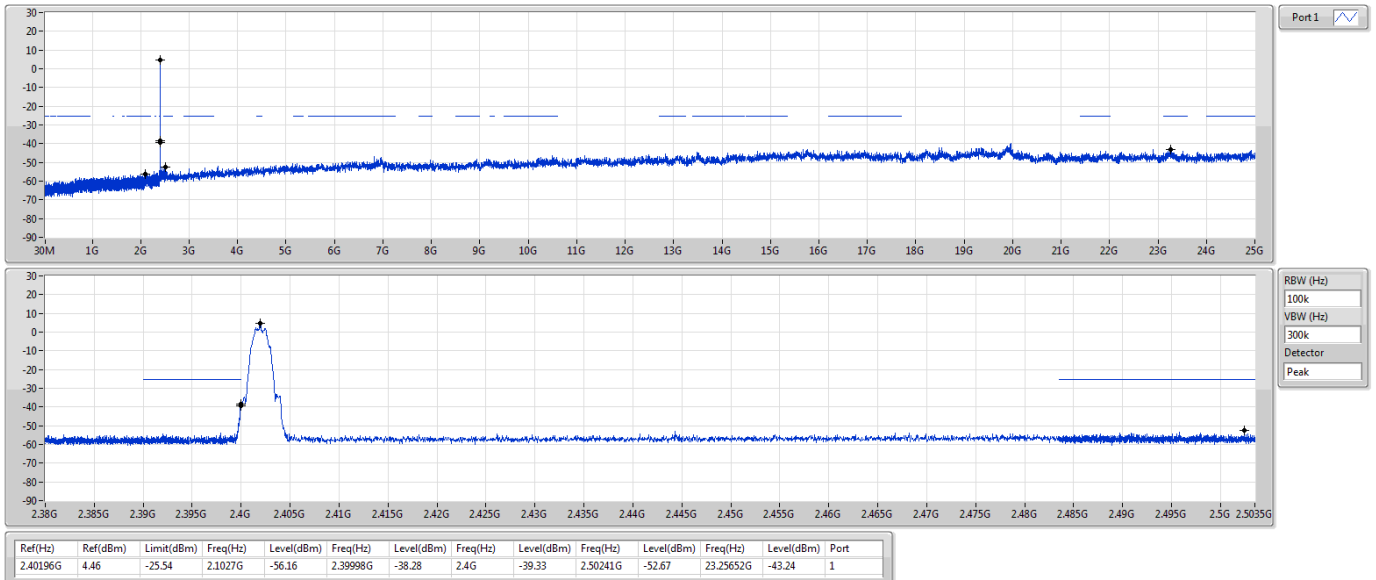
2480MHz



BT-LE(2Mbps)

CSEndB-DTS

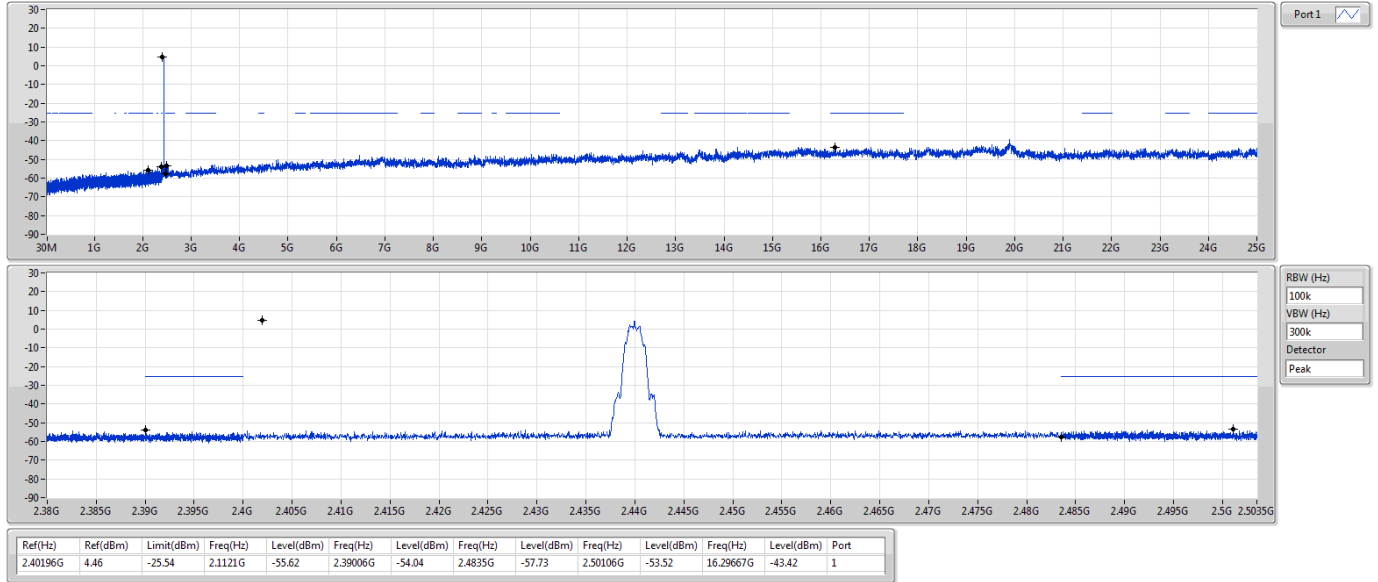
2402MHz



BT-LE(2Mbps)

CSEndB-DTS

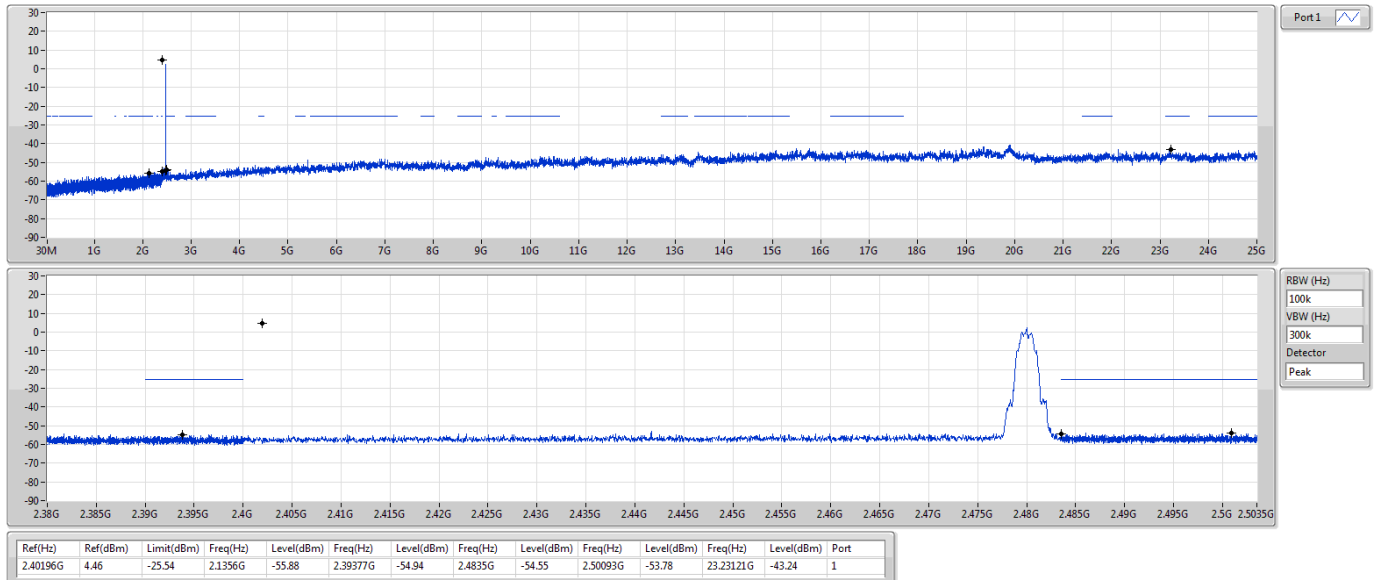
2440MHz



BT-LE(2Mbps)

CSEndB-DTS

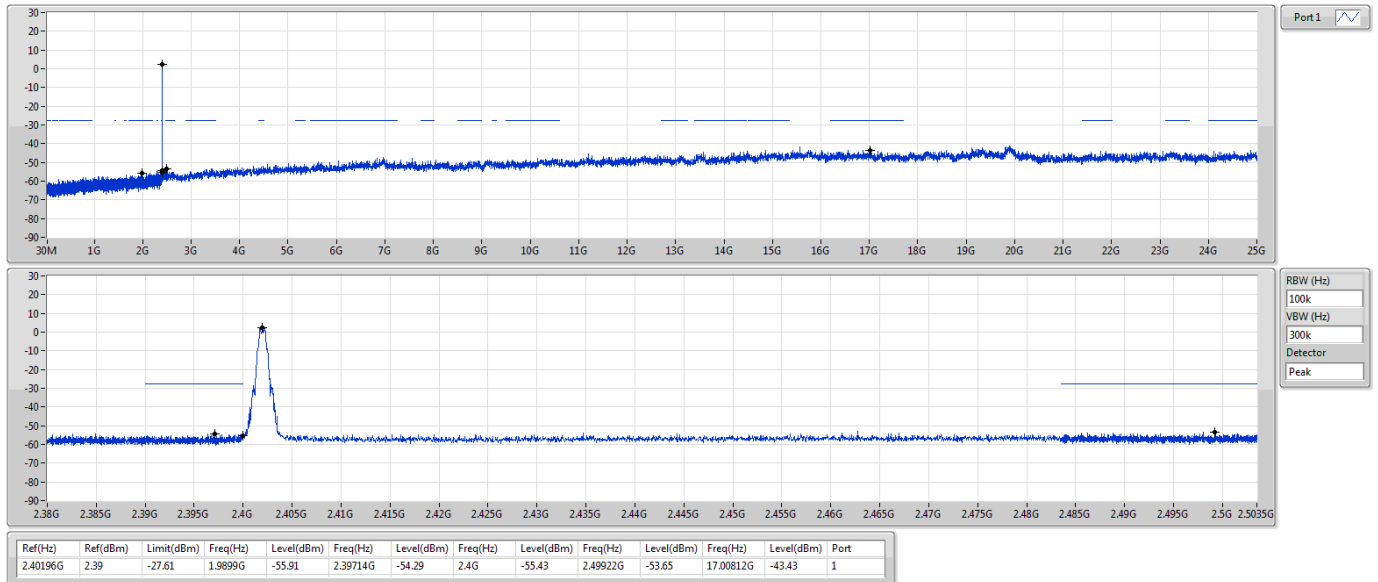
2480MHz



BT-LE(125kbps)

CSEndB-DTS

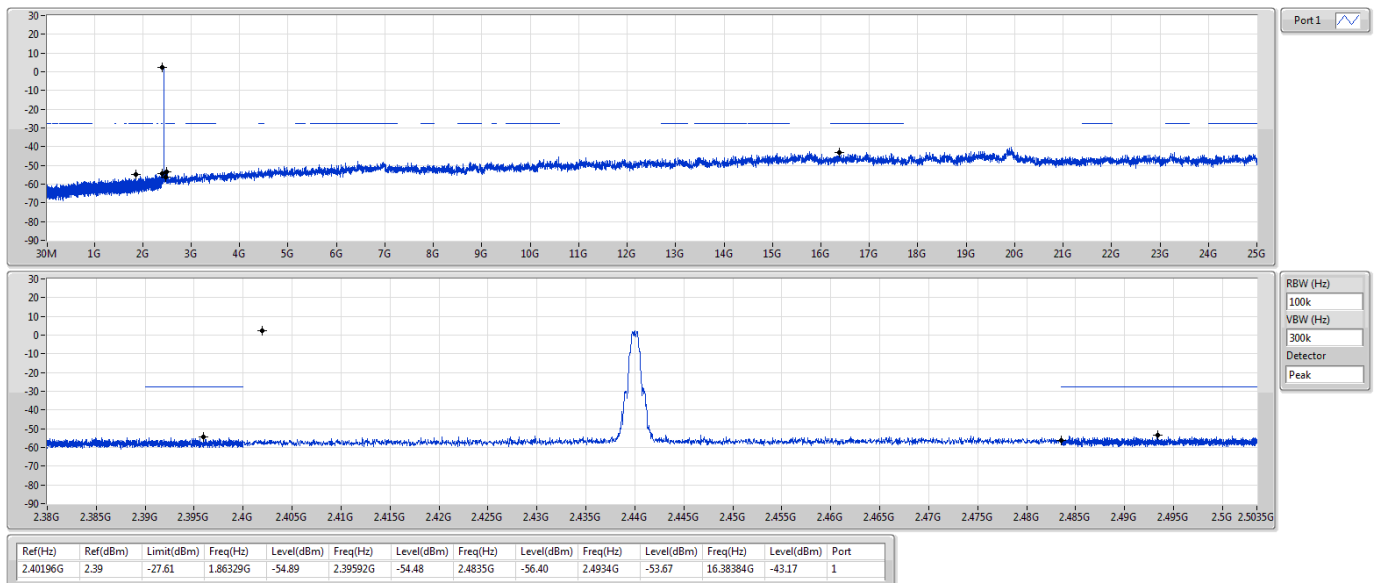
2402MHz



BT-LE(125kbps)

CSEndB-DTS

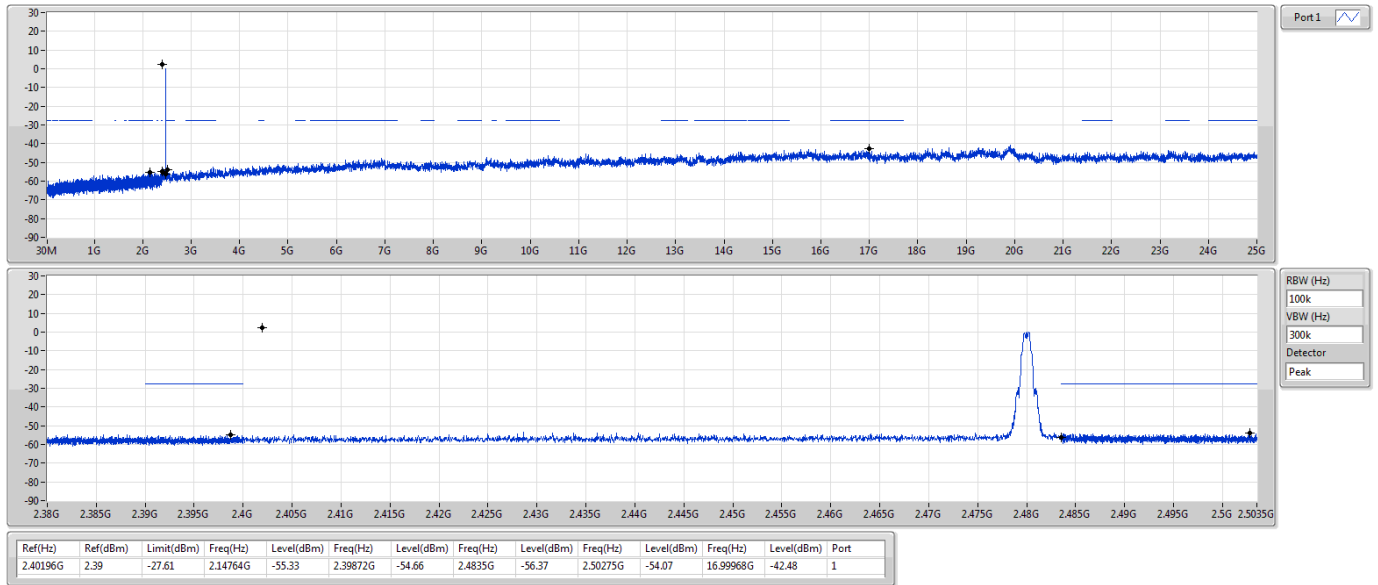
2440MHz



BT-LE(125kbps)

CSEndB-DTS

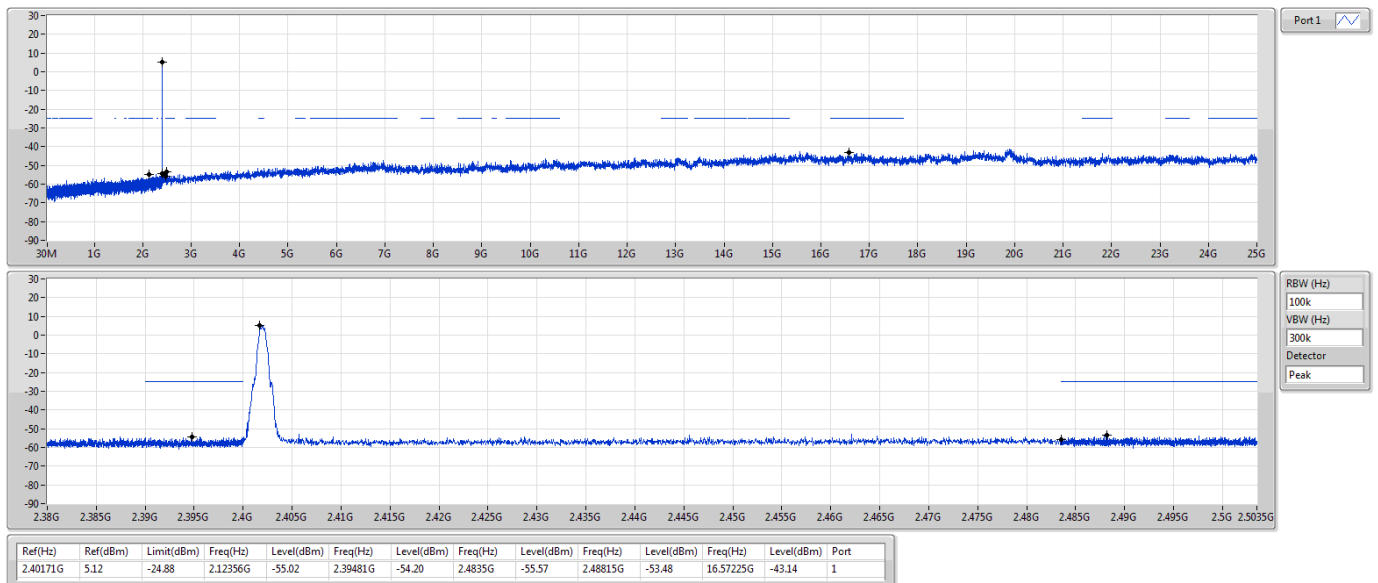
2480MHz



BT-LE(500kbps)

CSEndB-DTS

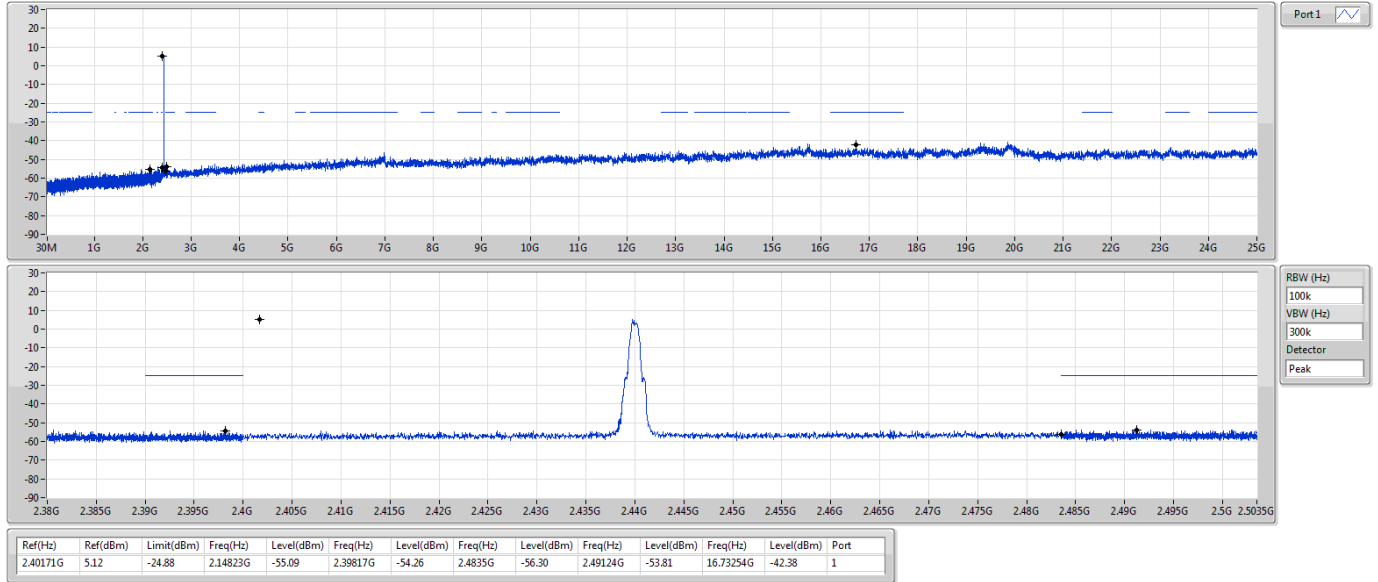
2402MHz



BT-LE(500kbps)

CSEndB-DTS

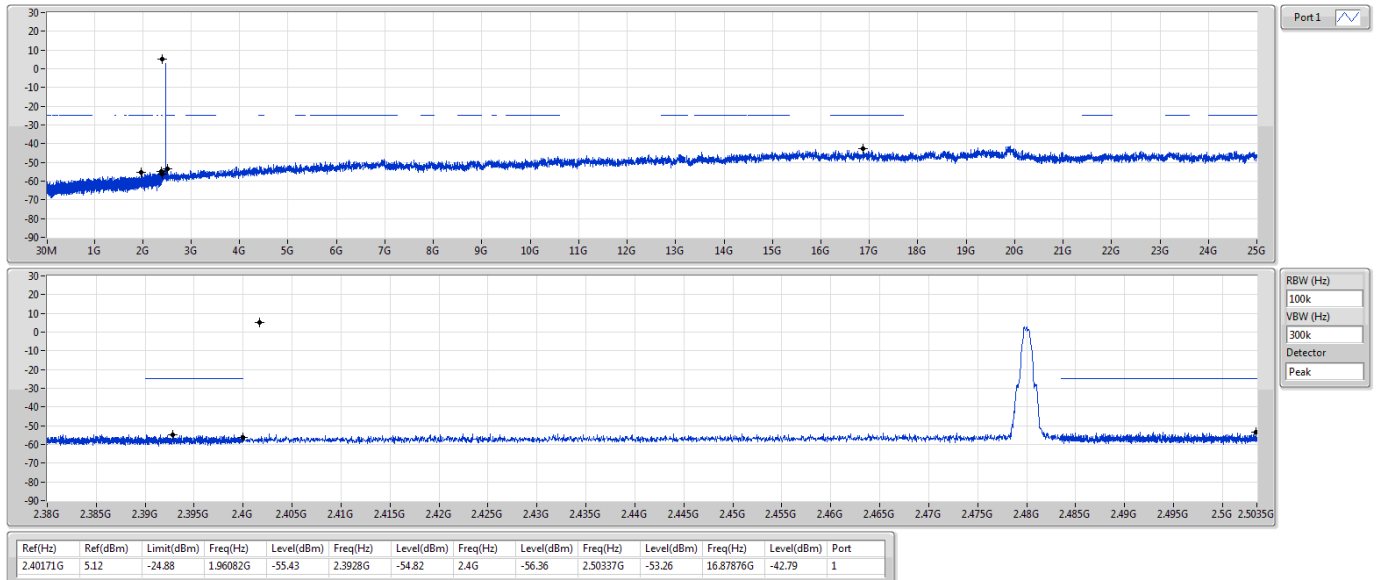
2440MHz



BT-LE(500kbps)

CSEndB-DTS

2480MHz





Summary

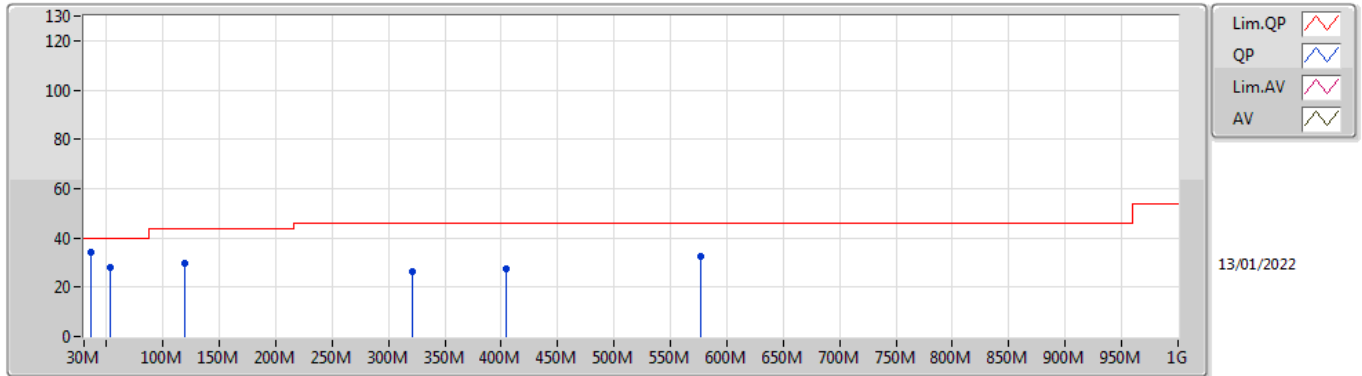
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(2Mbps)	Pass	PK	35.82M	34.32	40.00	-5.68	3	Vertical	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	35.82M	34.32	40.00	-5.68	3	Vertical	0	1.00	-
2440MHz	Pass	PK	53.28M	28.09	40.00	-11.91	3	Vertical	0	1.00	-
2440MHz	Pass	PK	119.24M	29.82	43.50	-13.68	3	Vertical	0	1.00	-
2440MHz	Pass	PK	321M	26.46	46.00	-19.54	3	Vertical	0	1.00	-
2440MHz	Pass	PK	404.42M	27.53	46.00	-18.47	3	Vertical	0	1.00	-
2440MHz	Pass	PK	577.08M	32.23	46.00	-13.77	3	Vertical	0	1.00	-
2440MHz	Pass	PK	30M	29.43	40.00	-10.57	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	99.84M	31.03	43.50	-12.47	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	156.1M	31.14	43.50	-12.36	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	317.12M	31.15	46.00	-14.85	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	404.42M	30.24	46.00	-15.76	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	577.08M	37.95	46.00	-8.05	3	Horizontal	360	1.00	-

BT-LE(2Mbps)

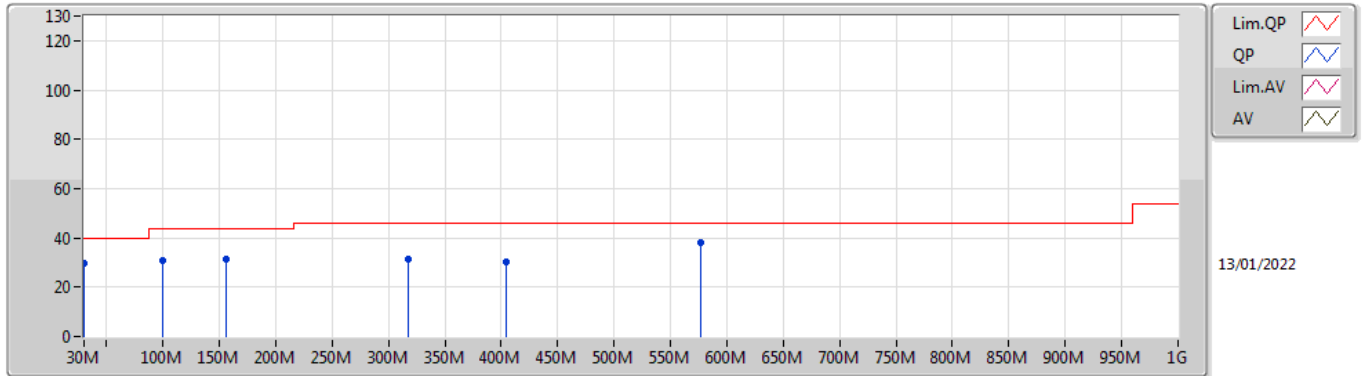
2440MHz_USB



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	35.82M	34.32	40.00	-5.68	-6.09	3	Vertical	0	1.00	-	40.41	20.17	0.92	27.18
PK	53.28M	28.09	40.00	-11.91	-14.42	3	Vertical	0	1.00	-	42.51	12.22	1.09	27.73
PK	119.24M	29.82	43.50	-13.68	-8.78	3	Vertical	0	1.00	-	38.60	17.48	1.54	27.80
PK	321M	26.46	46.00	-19.54	-5.92	3	Vertical	0	1.00	-	32.38	18.81	2.44	27.17
PK	404.42M	27.53	46.00	-18.47	-3.82	3	Vertical	0	1.00	-	31.35	21.24	2.75	27.81
PK	577.08M	32.23	46.00	-13.77	-1.18	3	Vertical	0	1.00	-	33.41	23.91	3.29	28.38

BT-LE(2Mbps)

2440MHz_USB



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	30M	29.43	40.00	-10.57	-2.87	3	Horizontal	360	1.00	-	32.30	23.26	0.86	26.99
PK	99.84M	31.03	43.50	-12.47	-10.35	3	Horizontal	360	1.00	-	41.38	16.00	1.42	27.77
PK	156.1M	31.14	43.50	-12.36	-10.48	3	Horizontal	360	1.00	-	41.62	15.32	1.74	27.54
PK	317.12M	31.15	46.00	-14.85	-5.94	3	Horizontal	360	1.00	-	37.09	18.78	2.43	27.15
PK	404.42M	30.24	46.00	-15.76	-3.82	3	Horizontal	360	1.00	-	34.06	21.24	2.75	27.81
PK	577.08M	37.95	46.00	-8.05	-1.18	3	Horizontal	360	1.00	-	39.13	23.91	3.29	28.38



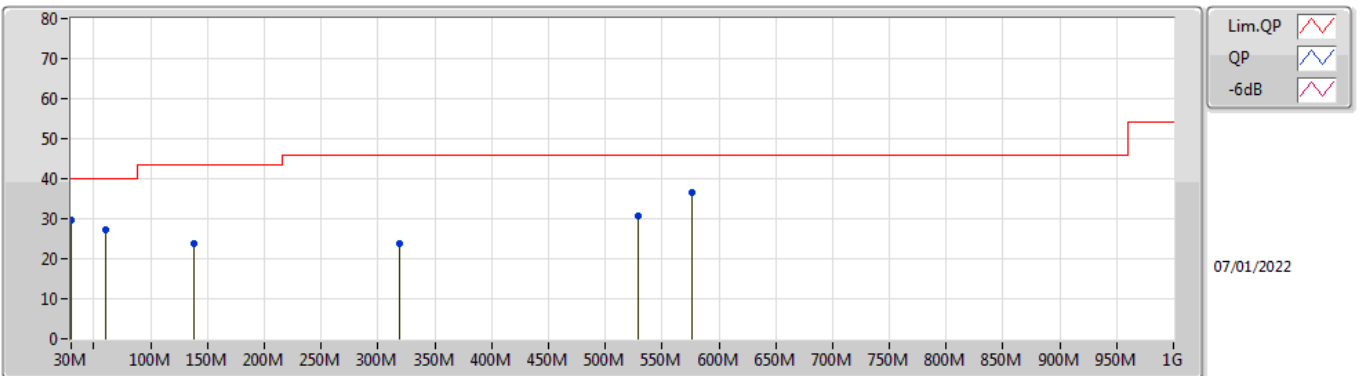
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	576.11M	36.58	46.00	-9.42	Vertical

**Result**

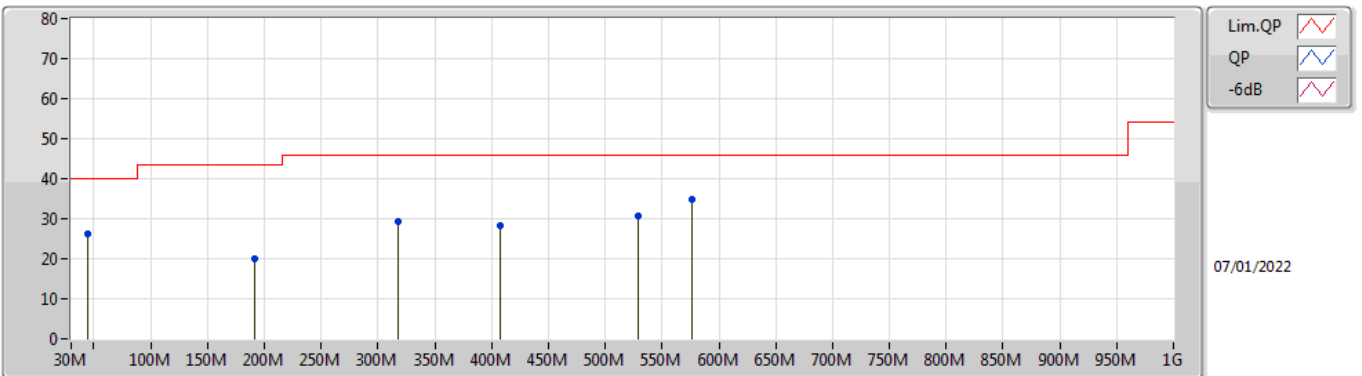
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 2	Pass	PK	30M	29.78	40.00	-10.22	3	Vertical	360	1.00	-
Mode 2	Pass	PK	60.07M	27.12	40.00	-12.88	3	Vertical	360	1.00	-
Mode 2	Pass	PK	138.64M	23.67	43.50	-19.83	3	Vertical	360	1.00	-
Mode 2	Pass	PK	319.06M	23.75	46.00	-22.25	3	Vertical	360	1.00	-
Mode 2	Pass	PK	528.58M	30.75	46.00	-15.25	3	Vertical	360	1.00	-
Mode 2	Pass	PK	576.11M	36.58	46.00	-9.42	3	Vertical	360	1.00	-
Mode 2	Pass	PK	44.55M	26.08	40.00	-13.92	3	Horizontal	0	1.00	-
Mode 2	Pass	PK	191.02M	19.87	43.50	-23.63	3	Horizontal	0	1.00	-
Mode 2	Pass	PK	318.09M	29.31	46.00	-16.69	3	Horizontal	0	1.00	-
Mode 2	Pass	PK	407.33M	28.18	46.00	-17.82	3	Horizontal	0	1.00	-
Mode 2	Pass	PK	528.58M	30.71	46.00	-15.29	3	Horizontal	0	1.00	-
Mode 2	Pass	PK	576.11M	34.90	46.00	-11.10	3	Horizontal	0	1.00	-

Radiated Emissions below 1GHz_Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	30M	29.78	40.00	-10.22	-2.87	3	Vertical	360	1.00	-	32.65	23.26	0.86	26.99
PK	60.07M	27.12	40.00	-12.88	-15.09	3	Vertical	360	1.00	-	42.21	11.54	1.14	27.77
PK	138.64M	23.67	43.50	-19.83	-9.54	3	Vertical	360	1.00	-	33.21	16.44	1.63	27.61
PK	319.06M	23.75	46.00	-22.25	-5.93	3	Vertical	360	1.00	-	29.68	18.80	2.43	27.16
PK	528.58M	30.75	46.00	-15.25	-2.40	3	Vertical	360	1.00	-	33.15	22.79	3.14	28.33
PK	576.11M	36.58	46.00	-9.42	-1.20	3	Vertical	360	1.00	-	37.78	23.90	3.28	28.38

Radiated Emissions below 1GHz_Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	44.55M	26.08	40.00	-13.92	-11.17	3	Horizontal	0	1.00	-	37.25	15.36	1.01	27.54
PK	191.02M	19.87	43.50	-23.63	-11.20	3	Horizontal	0	1.00	-	31.07	14.26	1.92	27.38
PK	318.09M	29.31	46.00	-16.69	-5.94	3	Horizontal	0	1.00	-	35.25	18.79	2.43	27.16
PK	407.33M	28.18	46.00	-17.82	-3.66	3	Horizontal	0	1.00	-	31.84	21.40	2.76	27.82
PK	528.58M	30.71	46.00	-15.29	-2.40	3	Horizontal	0	1.00	-	33.11	22.79	3.14	28.33
PK	576.11M	34.90	46.00	-11.10	-1.20	3	Horizontal	0	1.00	-	36.10	23.90	3.28	28.38

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	AV	2.4835G	50.59	54.00	-3.41	3	Horizontal	347	2.19	-
BT-LE(2Mbps)	Pass	AV	2.4835G	50.61	54.00	-3.39	3	Horizontal	342	1.00	-
BT-LE(125kbps)	Pass	AV	2.4835G	50.54	54.00	-3.46	3	Horizontal	349	2.19	-
BT-LE(500kbps)	Pass	AV	2.4835G	50.95	54.00	-3.05	3	Horizontal	348	2.17	-

Result

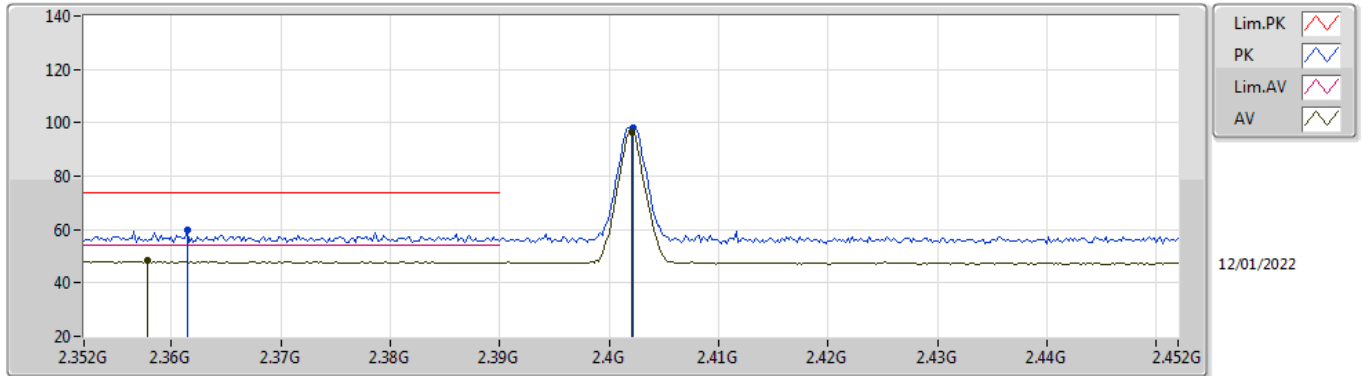
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3578G	48.24	54.00	-5.76	3	Vertical	34	2.70	-
2402MHz	Pass	AV	2.402G	96.43	Inf	-Inf	3	Vertical	34	2.70	-
2402MHz	Pass	PK	2.3614G	59.58	74.00	-14.42	3	Vertical	34	2.70	-
2402MHz	Pass	PK	2.4022G	98.16	Inf	-Inf	3	Vertical	34	2.70	-
2402MHz	Pass	AV	2.3586G	48.09	54.00	-5.91	3	Horizontal	294	1.02	-
2402MHz	Pass	AV	2.402G	97.38	Inf	-Inf	3	Horizontal	294	1.02	-
2402MHz	Pass	PK	2.3584G	58.22	74.00	-15.78	3	Horizontal	294	1.02	-
2402MHz	Pass	PK	2.4024G	99.17	Inf	-Inf	3	Horizontal	294	1.02	-
2402MHz	Pass	AV	4.8109G	30.73	54.00	-23.27	3	Vertical	71	1.19	-
2402MHz	Pass	PK	4.79278G	42.48	74.00	-31.52	3	Vertical	71	1.19	-
2402MHz	Pass	AV	4.81336G	30.73	54.00	-23.27	3	Horizontal	109	1.24	-
2402MHz	Pass	PK	4.80358G	42.50	74.00	-31.50	3	Horizontal	109	1.24	-
2402MHz	Pass	AV	2.3428G	48.19	54.00	-5.81	3	Vertical	29	1.00	-
2440MHz	Pass	AV	2.44G	94.92	Inf	-Inf	3	Vertical	29	1.00	-
2440MHz	Pass	AV	2.4844G	47.66	54.00	-6.34	3	Vertical	29	1.00	-
2440MHz	Pass	PK	2.3868G	59.23	74.00	-14.77	3	Vertical	29	1.00	-
2440MHz	Pass	PK	2.44G	97.04	Inf	-Inf	3	Vertical	29	1.00	-
2440MHz	Pass	PK	2.4988G	58.03	74.00	-15.97	3	Vertical	29	1.00	-
2440MHz	Pass	AV	2.342G	48.24	54.00	-5.76	3	Horizontal	343	1.64	-
2440MHz	Pass	AV	2.44G	97.29	Inf	-Inf	3	Horizontal	343	1.64	-
2440MHz	Pass	AV	2.4892G	47.78	54.00	-6.22	3	Horizontal	343	1.64	-
2440MHz	Pass	PK	2.3416G	58.48	74.00	-15.52	3	Horizontal	343	1.64	-
2440MHz	Pass	PK	2.44G	98.91	Inf	-Inf	3	Horizontal	343	1.64	-
2440MHz	Pass	PK	2.4948G	57.32	74.00	-16.68	3	Horizontal	343	1.64	-
2440MHz	Pass	AV	4.88378G	30.57	54.00	-23.43	3	Vertical	310	1.50	-
2440MHz	Pass	PK	4.87712G	42.65	74.00	-31.35	3	Vertical	310	1.50	-
2440MHz	Pass	AV	4.89434G	30.62	54.00	-23.38	3	Horizontal	158	1.50	-
2440MHz	Pass	PK	4.88732G	42.41	74.00	-31.59	3	Horizontal	158	1.50	-
2480MHz	Pass	AV	2.48G	100.99	Inf	-Inf	3	Vertical	53	2.82	-
2480MHz	Pass	AV	2.4835G	49.27	54.00	-4.73	3	Vertical	53	2.82	-
2480MHz	Pass	PK	2.4802G	102.76	Inf	-Inf	3	Vertical	53	2.82	-
2480MHz	Pass	PK	2.4898G	58.29	74.00	-15.71	3	Vertical	53	2.82	-
2480MHz	Pass	AV	2.48G	103.01	Inf	-Inf	3	Horizontal	347	2.19	-
2480MHz	Pass	AV	2.4835G	50.59	54.00	-3.41	3	Horizontal	347	2.19	-
2480MHz	Pass	PK	2.4802G	104.79	Inf	-Inf	3	Horizontal	347	2.19	-
2480MHz	Pass	PK	2.4835G	58.46	74.00	-15.54	3	Horizontal	347	2.19	-
2480MHz	Pass	AV	4.95586G	31.14	54.00	-22.86	3	Vertical	247	1.50	-
2480MHz	Pass	PK	4.94752G	42.70	74.00	-31.30	3	Vertical	247	1.50	-
2480MHz	Pass	AV	4.96894G	30.82	54.00	-23.18	3	Horizontal	84	1.50	-
2480MHz	Pass	PK	4.96786G	42.98	74.00	-31.02	3	Horizontal	84	1.50	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3546G	49.00	54.00	-5.00	3	Vertical	37	3.00	-
2402MHz	Pass	AV	2.402G	95.10	Inf	-Inf	3	Vertical	37	3.00	-
2402MHz	Pass	PK	2.3868G	58.22	74.00	-15.78	3	Vertical	37	3.00	-
2402MHz	Pass	PK	2.4026G	98.47	Inf	-Inf	3	Vertical	37	3.00	-
2402MHz	Pass	AV	2.3638G	49.12	54.00	-4.88	3	Horizontal	286	1.06	-
2402MHz	Pass	AV	2.4022G	94.98	Inf	-Inf	3	Horizontal	286	1.06	-
2402MHz	Pass	PK	2.3874G	58.71	74.00	-15.29	3	Horizontal	286	1.06	-
2402MHz	Pass	PK	2.4024G	98.43	Inf	-Inf	3	Horizontal	286	1.06	-
2402MHz	Pass	AV	4.80994G	32.06	54.00	-21.94	3	Vertical	77	1.36	-
2402MHz	Pass	PK	4.8157G	42.38	74.00	-31.62	3	Vertical	77	1.36	-
2402MHz	Pass	AV	4.81354G	31.92	54.00	-22.08	3	Horizontal	216	1.17	-
2402MHz	Pass	PK	4.81468G	42.64	74.00	-31.36	3	Horizontal	216	1.17	-
2440MHz	Pass	AV	2.356G	49.05	54.00	-4.95	3	Vertical	37	3.00	-
2440MHz	Pass	AV	2.44G	93.86	Inf	-Inf	3	Vertical	37	3.00	-
2440MHz	Pass	AV	2.4956G	48.75	54.00	-5.25	3	Vertical	37	3.00	-
2440MHz	Pass	PK	2.3604G	58.55	74.00	-15.45	3	Vertical	37	3.00	-
2440MHz	Pass	PK	2.4404G	97.51	Inf	-Inf	3	Vertical	37	3.00	-
2440MHz	Pass	PK	2.484G	57.32	74.00	-16.68	3	Vertical	37	3.00	-
2440MHz	Pass	AV	2.3464G	49.10	54.00	-4.90	3	Horizontal	343	2.32	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.44G	95.16	Inf	-Inf	3	Horizontal	343	2.32	-
2440MHz	Pass	AV	2.4952G	48.74	54.00	-5.26	3	Horizontal	343	2.32	-
2440MHz	Pass	PK	2.3736G	58.27	74.00	-15.73	3	Horizontal	343	2.32	-
2440MHz	Pass	PK	2.4404G	98.53	Inf	-Inf	3	Horizontal	343	2.32	-
2440MHz	Pass	PK	2.484G	58.93	74.00	-15.07	3	Horizontal	343	2.32	-
2440MHz	Pass	AV	4.88042G	32.07	54.00	-21.93	3	Vertical	218	1.42	-
2440MHz	Pass	PK	4.8743G	42.45	74.00	-31.55	3	Vertical	218	1.42	-
2440MHz	Pass	AV	4.87921G	32.16	54.00	-21.84	3	Horizontal	239	1.96	-
2440MHz	Pass	PK	4.87946G	42.35	74.00	-31.65	3	Horizontal	239	1.96	-
2480MHz	Pass	AV	2.48G	96.31	Inf	-Inf	3	Vertical	47	2.86	-
2480MHz	Pass	AV	2.4835G	49.64	54.00	-4.36	3	Vertical	47	2.86	-
2480MHz	Pass	PK	2.4806G	99.61	Inf	-Inf	3	Vertical	47	2.86	-
2480MHz	Pass	PK	2.4838G	57.88	74.00	-16.12	3	Vertical	47	2.86	-
2480MHz	Pass	AV	2.48G	99.86	Inf	-Inf	3	Horizontal	342	1.00	-
2480MHz	Pass	AV	2.4835G	50.61	54.00	-3.39	3	Horizontal	342	1.00	-
2480MHz	Pass	PK	2.4804G	103.25	Inf	-Inf	3	Horizontal	342	1.00	-
2480MHz	Pass	PK	2.4835G	58.15	74.00	-15.85	3	Horizontal	342	1.00	-
2480MHz	Pass	AV	4.95955G	32.22	54.00	-21.78	3	Vertical	66	1.46	-
2480MHz	Pass	PK	4.95894G	43.05	74.00	-30.95	3	Vertical	66	1.46	-
2480MHz	Pass	AV	4.96141G	32.21	54.00	-21.79	3	Horizontal	168	1.49	-
2480MHz	Pass	PK	4.96104G	42.89	74.00	-31.11	3	Horizontal	168	1.49	-
BT-LE(125kpbs)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3578G	47.70	54.00	-6.30	3	Vertical	32	3.00	-
2402MHz	Pass	AV	2.402G	95.35	Inf	-Inf	3	Vertical	32	3.00	-
2402MHz	Pass	PK	2.3656G	58.72	74.00	-15.28	3	Vertical	32	3.00	-
2402MHz	Pass	PK	2.4024G	97.30	Inf	-Inf	3	Vertical	32	3.00	-
2402MHz	Pass	AV	2.3598G	47.77	54.00	-6.23	3	Horizontal	333	2.60	-
2402MHz	Pass	AV	2.402G	97.11	Inf	-Inf	3	Horizontal	333	2.60	-
2402MHz	Pass	PK	2.3706G	58.72	74.00	-15.28	3	Horizontal	333	2.60	-
2402MHz	Pass	PK	2.4024G	99.16	Inf	-Inf	3	Horizontal	333	2.60	-
2402MHz	Pass	AV	4.81642G	29.84	54.00	-24.16	3	Vertical	240	2.22	-
2402MHz	Pass	PK	4.80184G	42.28	74.00	-31.72	3	Vertical	240	2.22	-
2402MHz	Pass	AV	4.81588G	29.70	54.00	-24.30	3	Horizontal	273	1.73	-
2402MHz	Pass	PK	4.8043G	42.42	74.00	-31.58	3	Horizontal	273	1.73	-
2440MHz	Pass	AV	2.3508G	47.81	54.00	-6.19	3	Vertical	29	1.57	-
2440MHz	Pass	AV	2.44G	95.53	Inf	-Inf	3	Vertical	29	1.57	-
2440MHz	Pass	AV	2.4864G	47.28	54.00	-6.72	3	Vertical	29	1.57	-
2440MHz	Pass	PK	2.3492G	58.80	74.00	-15.20	3	Vertical	29	1.57	-
2440MHz	Pass	PK	2.4404G	97.26	Inf	-Inf	3	Vertical	29	1.57	-
2440MHz	Pass	PK	2.4884G	58.42	74.00	-15.58	3	Vertical	29	1.57	-
2440MHz	Pass	AV	2.3416G	47.72	54.00	-6.28	3	Horizontal	346	2.03	-
2440MHz	Pass	AV	2.44G	97.16	Inf	-Inf	3	Horizontal	346	2.03	-
2440MHz	Pass	AV	2.4912G	47.25	54.00	-6.75	3	Horizontal	346	2.03	-
2440MHz	Pass	PK	2.3836G	58.95	74.00	-15.05	3	Horizontal	346	2.03	-
2440MHz	Pass	PK	2.4404G	99.02	Inf	-Inf	3	Horizontal	346	2.03	-
2440MHz	Pass	PK	2.4856G	58.11	74.00	-15.89	3	Horizontal	346	2.03	-
2440MHz	Pass	AV	4.89338G	30.19	54.00	-23.81	3	Vertical	312	1.45	-
2440MHz	Pass	PK	4.88792G	42.85	74.00	-31.15	3	Vertical	312	1.45	-
2440MHz	Pass	AV	4.89476G	29.86	54.00	-24.14	3	Horizontal	137	1.64	-
2440MHz	Pass	PK	4.8815G	42.15	74.00	-31.85	3	Horizontal	137	1.64	-
2480MHz	Pass	AV	2.48G	100.69	Inf	-Inf	3	Vertical	43	2.07	-
2480MHz	Pass	AV	2.4835G	49.56	54.00	-4.44	3	Vertical	43	2.07	-
2480MHz	Pass	PK	2.4802G	102.52	Inf	-Inf	3	Vertical	43	2.07	-
2480MHz	Pass	PK	2.4982G	58.18	74.00	-15.82	3	Vertical	43	2.07	-
2480MHz	Pass	AV	2.48G	102.56	Inf	-Inf	3	Horizontal	349	2.19	-
2480MHz	Pass	AV	2.4835G	50.54	54.00	-3.46	3	Horizontal	349	2.19	-
2480MHz	Pass	PK	2.4798G	104.48	Inf	-Inf	3	Horizontal	349	2.19	-
2480MHz	Pass	PK	2.4835G	58.25	74.00	-15.75	3	Horizontal	349	2.19	-
2480MHz	Pass	AV	4.9741G	30.13	54.00	-23.87	3	Vertical	168	1.77	-
2480MHz	Pass	PK	4.97332G	42.69	74.00	-31.31	3	Vertical	168	1.77	-
2480MHz	Pass	AV	4.95994G	30.10	54.00	-23.90	3	Horizontal	108	2.82	-
2480MHz	Pass	PK	4.95784G	42.71	74.00	-31.29	3	Horizontal	108	2.82	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(500kpbs)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3532G	47.84	54.00	-6.16	3	Vertical	29	3.00	-
2402MHz	Pass	AV	2.402G	97.70	Inf	-Inf	3	Vertical	29	3.00	-
2402MHz	Pass	PK	2.3782G	58.92	74.00	-15.08	3	Vertical	29	3.00	-
2402MHz	Pass	PK	2.4024G	99.86	Inf	-Inf	3	Vertical	29	3.00	-
2402MHz	Pass	AV	2.365G	47.74	54.00	-6.26	3	Horizontal	334	2.60	-
2402MHz	Pass	AV	2.402G	98.42	Inf	-Inf	3	Horizontal	334	2.60	-
2402MHz	Pass	PK	2.3542G	58.69	74.00	-15.31	3	Horizontal	334	2.60	-
2402MHz	Pass	PK	2.4024G	100.28	Inf	-Inf	3	Horizontal	334	2.60	-
2402MHz	Pass	AV	4.80275G	29.47	54.00	-24.53	3	Vertical	190	1.50	-
2402MHz	Pass	PK	4.80498G	42.46	74.00	-31.54	3	Vertical	190	1.50	-
2402MHz	Pass	AV	4.80285G	29.57	54.00	-24.43	3	Horizontal	306	2.06	-
2402MHz	Pass	PK	4.80339G	42.72	74.00	-31.28	3	Horizontal	306	2.06	-
2440MHz	Pass	AV	2.36G	47.73	54.00	-6.27	3	Vertical	28	1.57	-
2440MHz	Pass	AV	2.44G	92.63	Inf	-Inf	3	Vertical	28	1.57	-
2440MHz	Pass	AV	2.498G	47.18	54.00	-6.82	3	Vertical	28	1.57	-
2440MHz	Pass	PK	2.3432G	58.51	74.00	-15.49	3	Vertical	28	1.57	-
2440MHz	Pass	PK	2.4404G	94.68	Inf	-Inf	3	Vertical	28	1.57	-
2440MHz	Pass	PK	2.4864G	57.88	74.00	-16.12	3	Vertical	28	1.57	-
2440MHz	Pass	AV	2.3476G	47.74	54.00	-6.26	3	Horizontal	346	2.80	-
2440MHz	Pass	AV	2.44G	92.69	Inf	-Inf	3	Horizontal	346	2.80	-
2440MHz	Pass	AV	2.4912G	47.18	54.00	-6.82	3	Horizontal	346	2.80	-
2440MHz	Pass	PK	2.3468G	58.73	74.00	-15.27	3	Horizontal	346	2.80	-
2440MHz	Pass	PK	2.4396G	94.47	Inf	-Inf	3	Horizontal	346	2.80	-
2440MHz	Pass	PK	2.4992G	58.59	74.00	-15.41	3	Horizontal	346	2.80	-
2440MHz	Pass	AV	4.87864G	29.55	54.00	-24.45	3	Vertical	0	1.86	-
2440MHz	Pass	PK	4.8806G	42.66	74.00	-31.34	3	Vertical	0	1.86	-
2440MHz	Pass	AV	4.88014G	29.74	54.00	-24.26	3	Horizontal	88	1.50	-
2440MHz	Pass	PK	4.88062G	42.89	74.00	-31.11	3	Horizontal	88	1.50	-
2480MHz	Pass	AV	2.4802G	101.51	Inf	-Inf	3	Vertical	53	2.81	-
2480MHz	Pass	AV	2.4835G	49.80	54.00	-4.20	3	Vertical	53	2.81	-
2480MHz	Pass	PK	2.4798G	103.51	Inf	-Inf	3	Vertical	53	2.81	-
2480MHz	Pass	PK	2.4942G	58.23	74.00	-15.77	3	Vertical	53	2.81	-
2480MHz	Pass	AV	2.48G	103.47	Inf	-Inf	3	Horizontal	348	2.17	-
2480MHz	Pass	AV	2.4835G	50.95	54.00	-3.05	3	Horizontal	348	2.17	-
2480MHz	Pass	PK	2.4798G	105.51	Inf	-Inf	3	Horizontal	348	2.17	-
2480MHz	Pass	PK	2.4835G	58.71	74.00	-15.29	3	Horizontal	348	2.17	-
2480MHz	Pass	AV	4.96035G	30.05	54.00	-23.95	3	Vertical	0	1.58	-
2480MHz	Pass	PK	4.96118G	43.94	74.00	-30.06	3	Vertical	0	1.58	-
2480MHz	Pass	AV	4.95526G	30.23	54.00	-23.77	3	Horizontal	262	1.50	-
2480MHz	Pass	PK	4.9546G	43.22	74.00	-30.78	3	Horizontal	262	1.50	-

BT-LE(1Mbps)

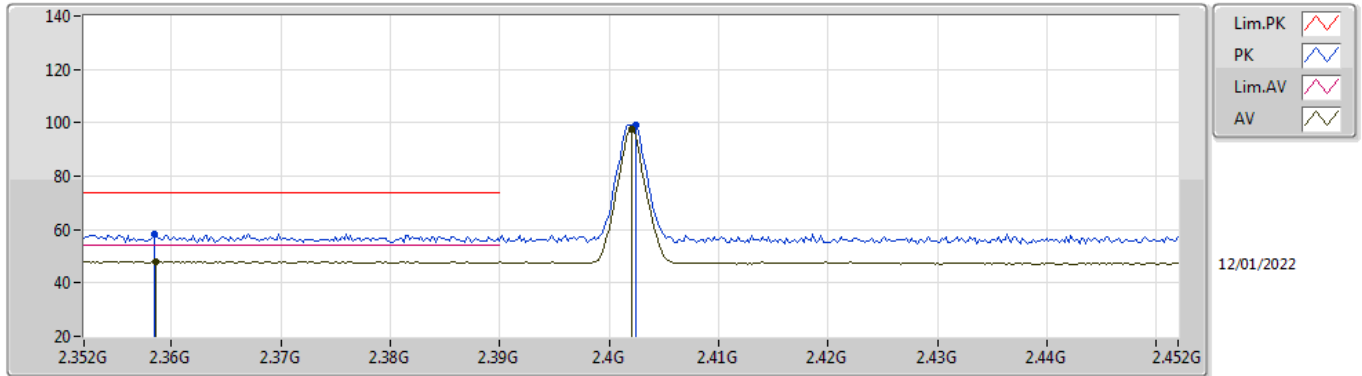
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3578G	48.24	54.00	-5.76	35.02	3	Vertical	34	2.70	-	13.22	27.78	7.24	-
AV	2.402G	96.43	Inf	-Inf	34.95	3	Vertical	34	2.70	-	61.48	27.69	7.26	-
PK	2.3614G	59.58	74.00	-14.42	35.02	3	Vertical	34	2.70	-	24.56	27.78	7.24	-
PK	2.4022G	98.16	Inf	-Inf	34.95	3	Vertical	34	2.70	-	63.21	27.69	7.26	-

BT-LE(1Mbps)

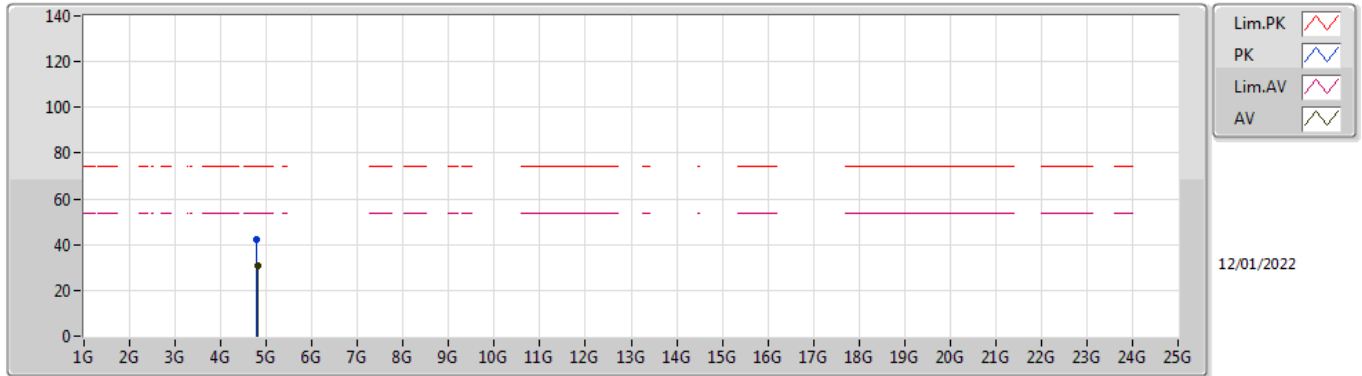
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3586G	48.09	54.00	-5.91	35.02	3	Horizontal	294	1.02	-	13.07	27.78	7.24	-
AV	2.402G	97.38	Inf	-Inf	34.95	3	Horizontal	294	1.02	-	62.43	27.69	7.26	-
PK	2.3584G	58.22	74.00	-15.78	35.02	3	Horizontal	294	1.02	-	23.20	27.78	7.24	-
PK	2.4024G	99.17	Inf	-Inf	34.95	3	Horizontal	294	1.02	-	64.22	27.69	7.26	-

BT-LE(1Mbps)

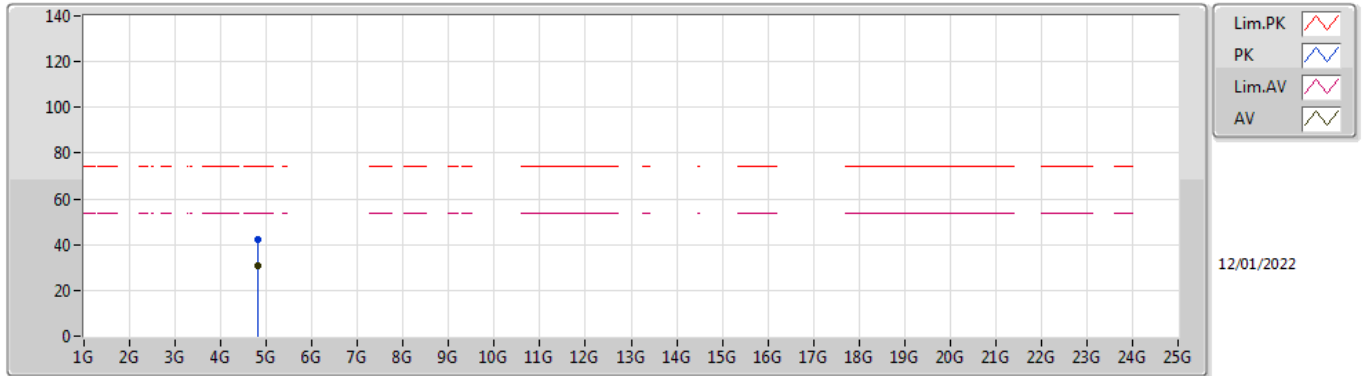
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8109G	30.73	54.00	-23.27	5.84	3	Vertical	71	1.19	-	24.89	31.12	8.91	34.19
PK	4.79278G	42.48	74.00	-31.52	5.82	3	Vertical	71	1.19	-	36.66	31.13	8.89	34.20

BT-LE(1Mbps)

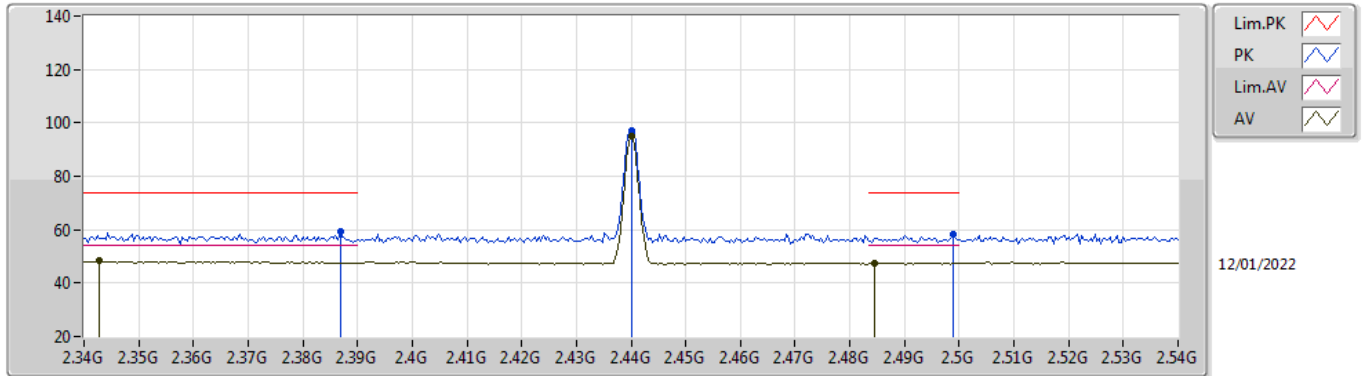
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.81336G	30.73	54.00	-23.27	5.85	3	Horizontal	109	1.24	-	24.88	31.13	8.91	34.19
PK	4.80358G	42.50	74.00	-31.50	5.82	3	Horizontal	109	1.24	-	36.68	31.11	8.90	34.19

BT-LE(1Mbps)

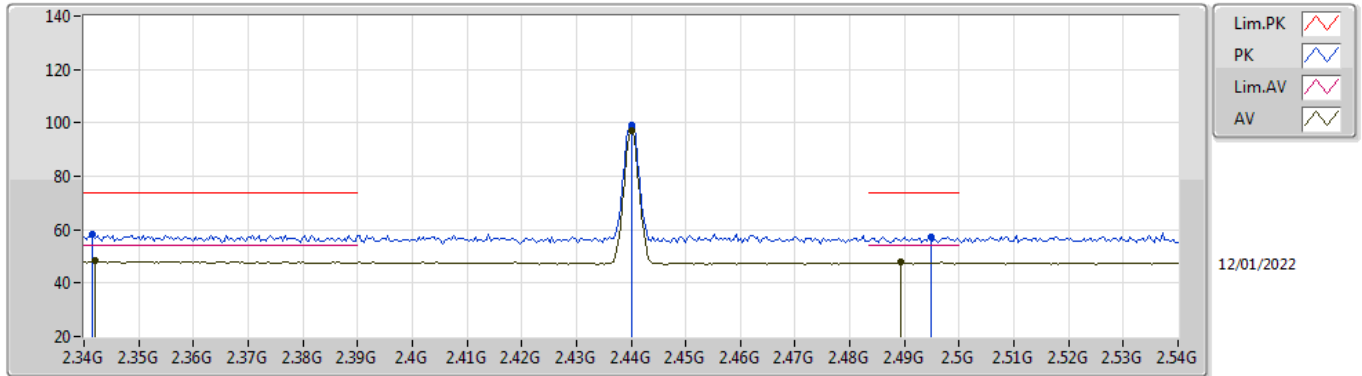
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3428G	48.19	54.00	-5.81	35.04	3	Vertical	29	1.00	-	13.15	27.81	7.23	-
AV	2.44G	94.92	Inf	-Inf	34.75	3	Vertical	29	1.00	-	60.17	27.46	7.29	-
AV	2.4844G	47.66	54.00	-6.34	34.73	3	Vertical	29	1.00	-	12.93	27.40	7.33	-
PK	2.3868G	59.23	74.00	-14.77	34.98	3	Vertical	29	1.00	-	24.25	27.73	7.25	-
PK	2.44G	97.04	Inf	-Inf	34.75	3	Vertical	29	1.00	-	62.29	27.46	7.29	-
PK	2.4988G	58.03	74.00	-15.97	34.74	3	Vertical	29	1.00	-	23.29	27.40	7.34	-

BT-LE(1Mbps)

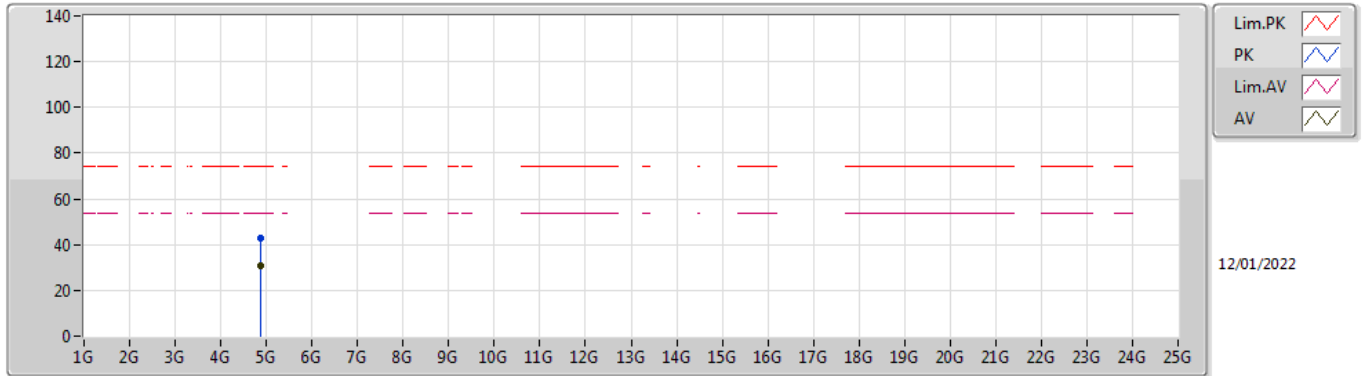
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.342G	48.24	54.00	-5.76	35.05	3	Horizontal	343	1.64	-	13.19	27.82	7.23	-
AV	2.44G	97.29	Inf	-Inf	34.75	3	Horizontal	343	1.64	-	62.54	27.46	7.29	-
AV	2.4892G	47.78	54.00	-6.22	34.73	3	Horizontal	343	1.64	-	13.05	27.40	7.33	-
PK	2.3416G	58.48	74.00	-15.52	35.05	3	Horizontal	343	1.64	-	23.43	27.82	7.23	-
PK	2.44G	98.91	Inf	-Inf	34.75	3	Horizontal	343	1.64	-	64.16	27.46	7.29	-
PK	2.4948G	57.32	74.00	-16.68	34.74	3	Horizontal	343	1.64	-	22.58	27.40	7.34	-

BT-LE(1Mbps)

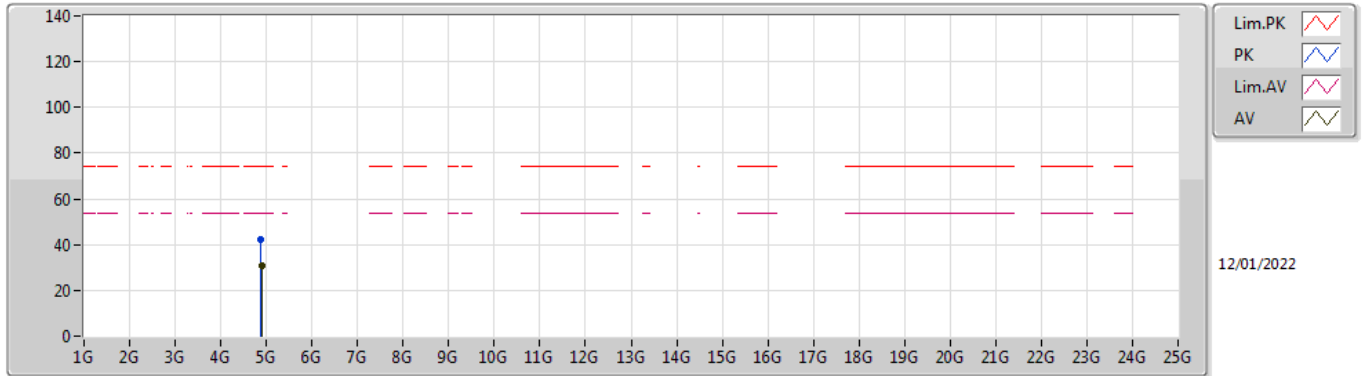
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.88378G	30.57	54.00	-23.43	6.00	3	Vertical	310	1.50	-	24.57	31.20	8.96	34.16
PK	4.87712G	42.65	74.00	-31.35	6.00	3	Vertical	310	1.50	-	36.65	31.20	8.96	34.16

BT-LE(1Mbps)

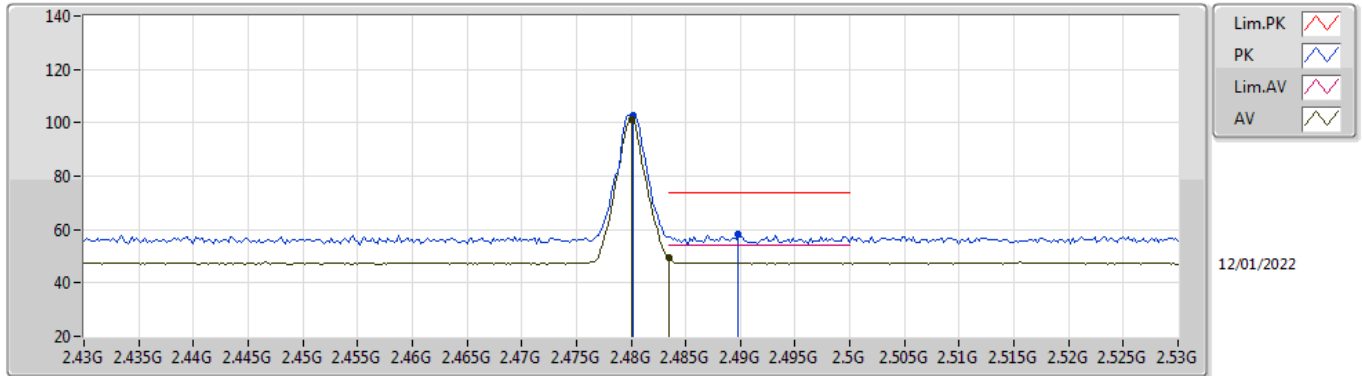
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.89434G	30.62	54.00	-23.38	6.02	3	Horizontal	158	1.50	-	24.60	31.20	8.97	34.15
PK	4.88732G	42.41	74.00	-31.59	6.02	3	Horizontal	158	1.50	-	36.39	31.20	8.97	34.15

BT-LE(1Mbps)

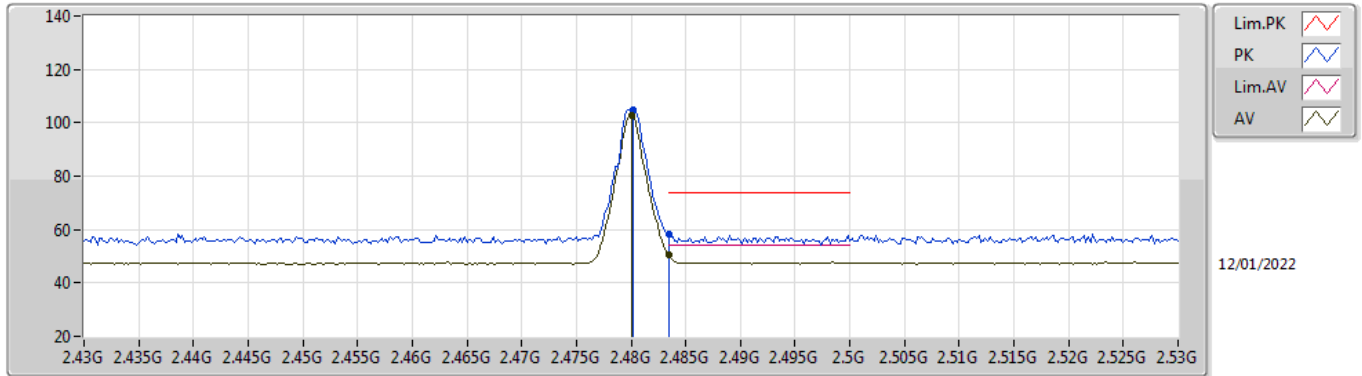
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	100.99	Inf	-Inf	34.72	3	Vertical	53	2.82	-	66.27	27.40	7.32	-
AV	2.4835G	49.27	54.00	-4.73	34.73	3	Vertical	53	2.82	-	14.54	27.40	7.33	-
PK	2.4802G	102.76	Inf	-Inf	34.72	3	Vertical	53	2.82	-	68.04	27.40	7.32	-
PK	2.4898G	58.29	74.00	-15.71	34.73	3	Vertical	53	2.82	-	23.56	27.40	7.33	-

BT-LE(1Mbps)

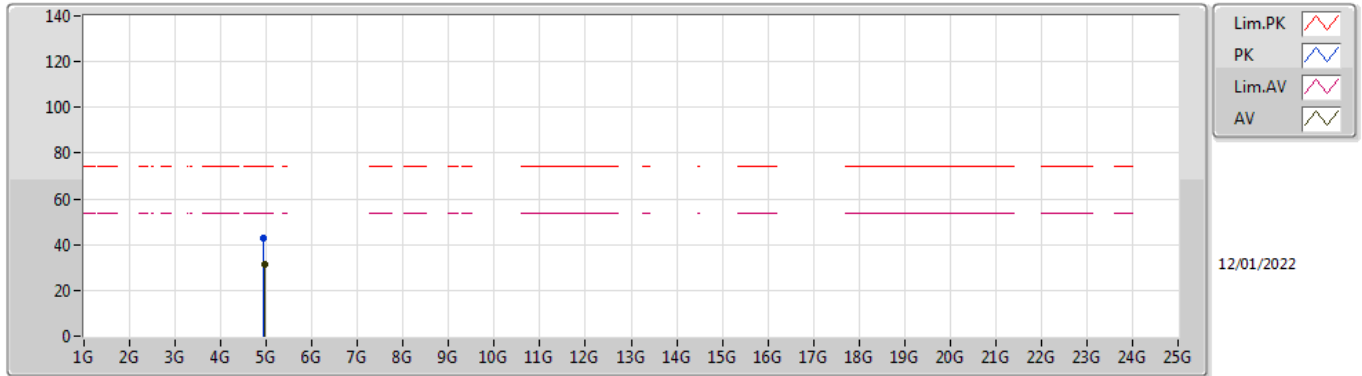
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	103.01	Inf	-Inf	34.72	3	Horizontal	347	2.19	-	68.29	27.40	7.32	-
AV	2.4835G	50.59	54.00	-3.41	34.73	3	Horizontal	347	2.19	-	15.86	27.40	7.33	-
PK	2.4802G	104.79	Inf	-Inf	34.72	3	Horizontal	347	2.19	-	70.07	27.40	7.32	-
PK	2.4835G	58.46	74.00	-15.54	34.73	3	Horizontal	347	2.19	-	23.73	27.40	7.33	-

BT-LE(1Mbps)

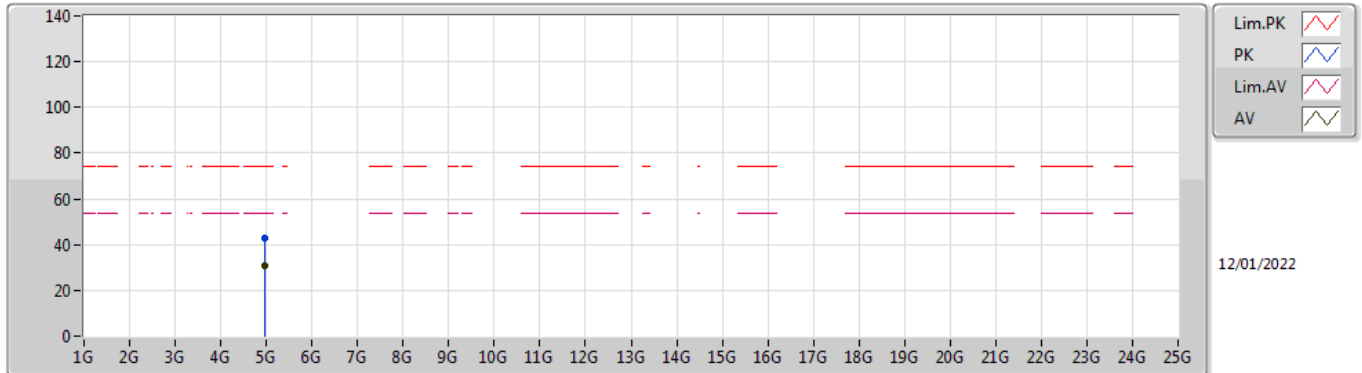
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95586G	31.14	54.00	-22.86	6.31	3	Vertical	247	1.50	-	24.83	31.41	9.02	34.12
PK	4.94752G	42.70	74.00	-31.30	6.27	3	Vertical	247	1.50	-	36.43	31.39	9.01	34.13

BT-LE(1Mbps)

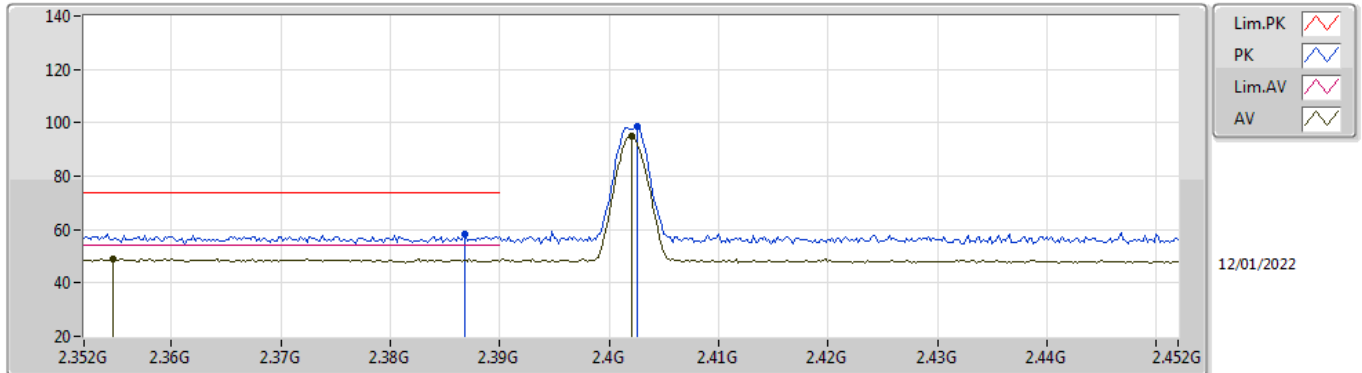
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.96894G	30.82	54.00	-23.18	6.36	3	Horizontal	84	1.50	-	24.46	31.44	9.03	34.11
PK	4.96786G	42.98	74.00	-31.02	6.35	3	Horizontal	84	1.50	-	36.63	31.44	9.03	34.12

BT-LE(2Mbps)

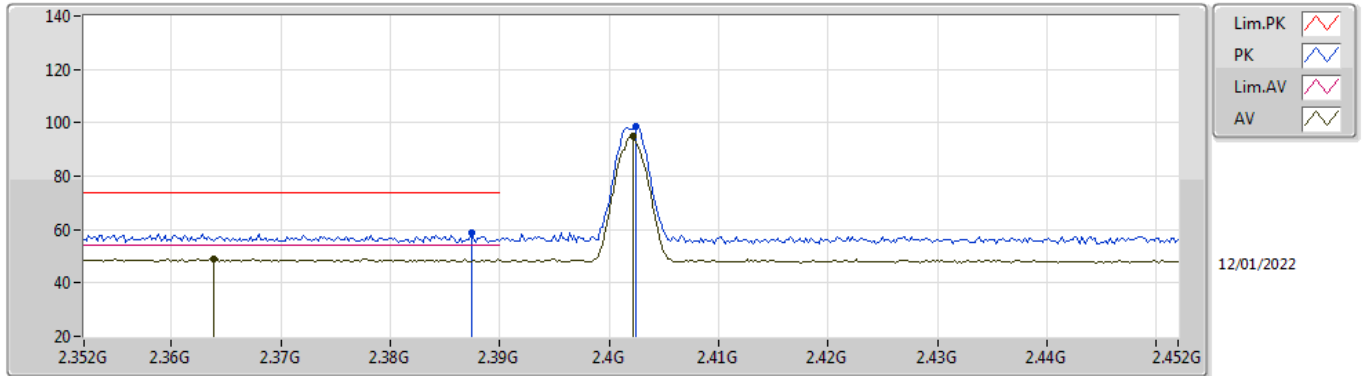
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3546G	49.00	54.00	-5.00	35.03	3	Vertical	37	3.00	-	13.97	27.79	7.24	-
AV	2.402G	95.10	Inf	-Inf	34.95	3	Vertical	37	3.00	-	60.15	27.69	7.26	-
PK	2.3868G	58.22	74.00	-15.78	34.98	3	Vertical	37	3.00	-	23.24	27.73	7.25	-
PK	2.4026G	98.47	Inf	-Inf	34.94	3	Vertical	37	3.00	-	63.53	27.68	7.26	-

BT-LE(2Mbps)

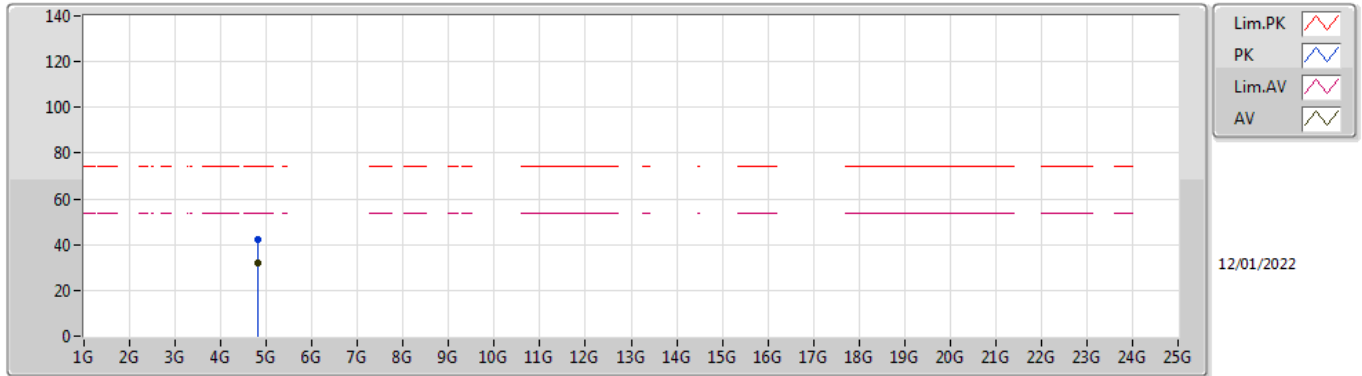
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3638G	49.12	54.00	-4.88	35.01	3	Horizontal	286	1.06	-	14.11	27.77	7.24	-
AV	2.4022G	94.98	Inf	-Inf	34.95	3	Horizontal	286	1.06	-	60.03	27.69	7.26	-
PK	2.3874G	58.71	74.00	-15.29	34.98	3	Horizontal	286	1.06	-	23.73	27.73	7.25	-
PK	2.4024G	98.43	Inf	-Inf	34.95	3	Horizontal	286	1.06	-	63.48	27.69	7.26	-

BT-LE(2Mbps)

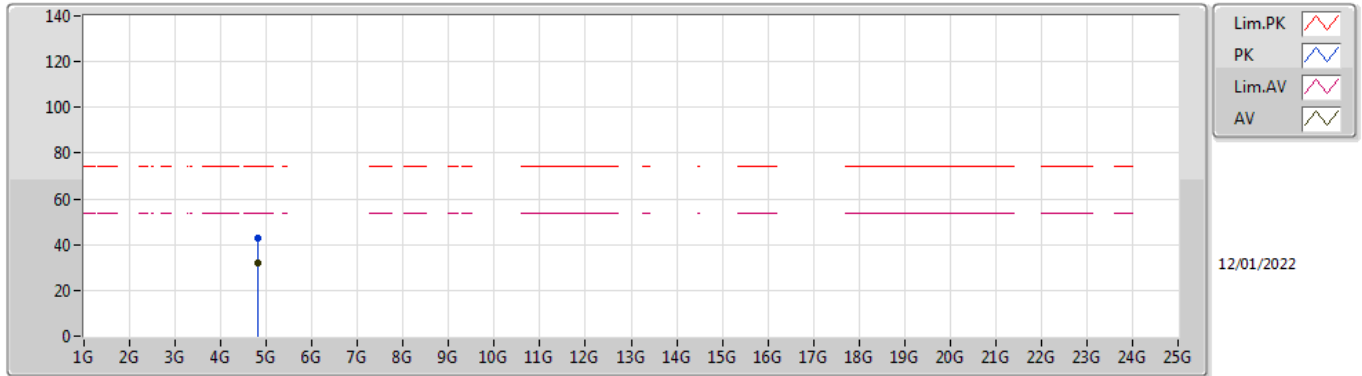
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80994G	32.06	54.00	-21.94	5.84	3	Vertical	77	1.36	-	26.22	31.12	8.91	34.19
PK	4.8157G	42.38	74.00	-31.62	5.85	3	Vertical	77	1.36	-	36.53	31.13	8.91	34.19

BT-LE(2Mbps)

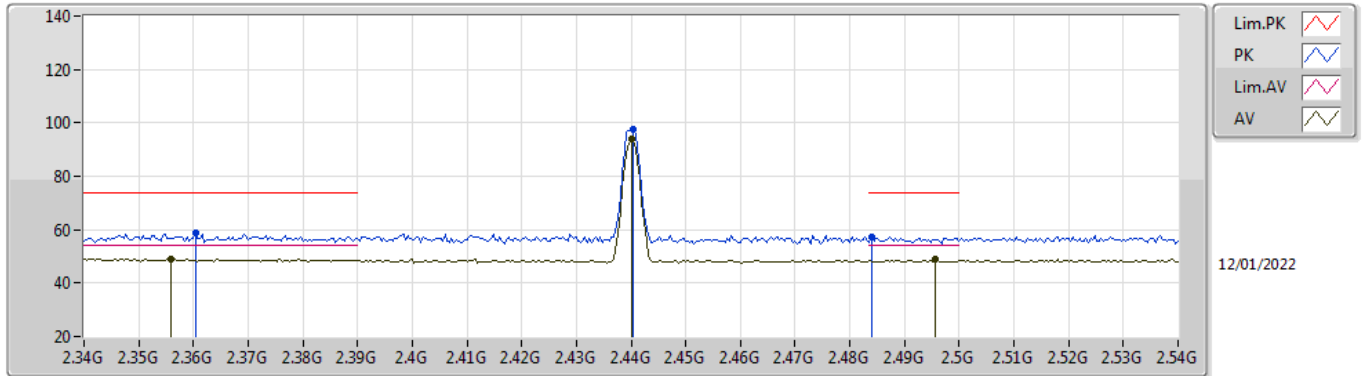
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.81354G	31.92	54.00	-22.08	5.85	3	Horizontal	216	1.17	-	26.07	31.13	8.91	34.19
PK	4.81468G	42.64	74.00	-31.36	5.85	3	Horizontal	216	1.17	-	36.79	31.13	8.91	34.19

BT-LE(2Mbps)

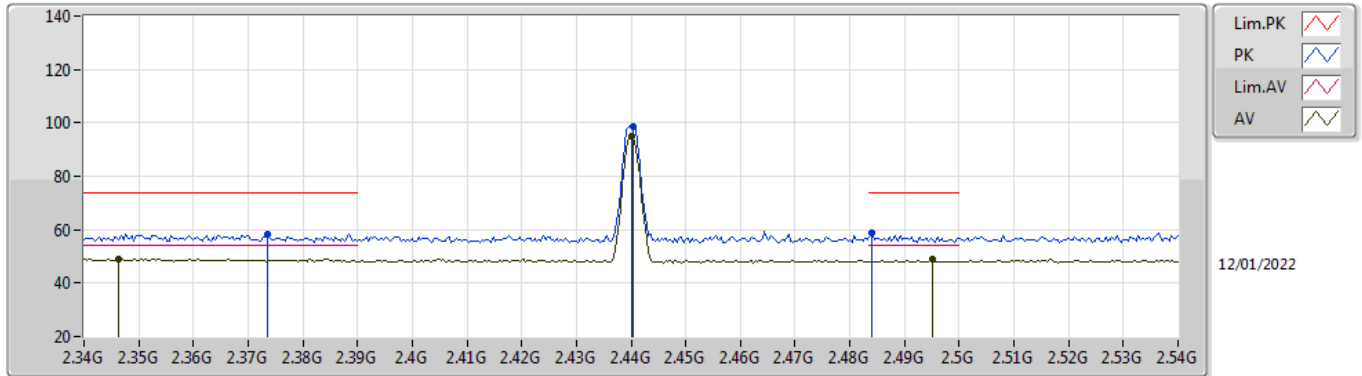
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.356G	49.05	54.00	-4.95	35.03	3	Vertical	37	3.00	-	14.02	27.79	7.24	-
AV	2.44G	93.86	Inf	-Inf	34.75	3	Vertical	37	3.00	-	59.11	27.46	7.29	-
AV	2.4956G	48.75	54.00	-5.25	34.74	3	Vertical	37	3.00	-	14.01	27.40	7.34	-
PK	2.3604G	58.55	74.00	-15.45	35.02	3	Vertical	37	3.00	-	23.53	27.78	7.24	-
PK	2.4404G	97.51	Inf	-Inf	34.75	3	Vertical	37	3.00	-	62.76	27.46	7.29	-
PK	2.484G	57.32	74.00	-16.68	34.73	3	Vertical	37	3.00	-	22.59	27.40	7.33	-

BT-LE(2Mbps)

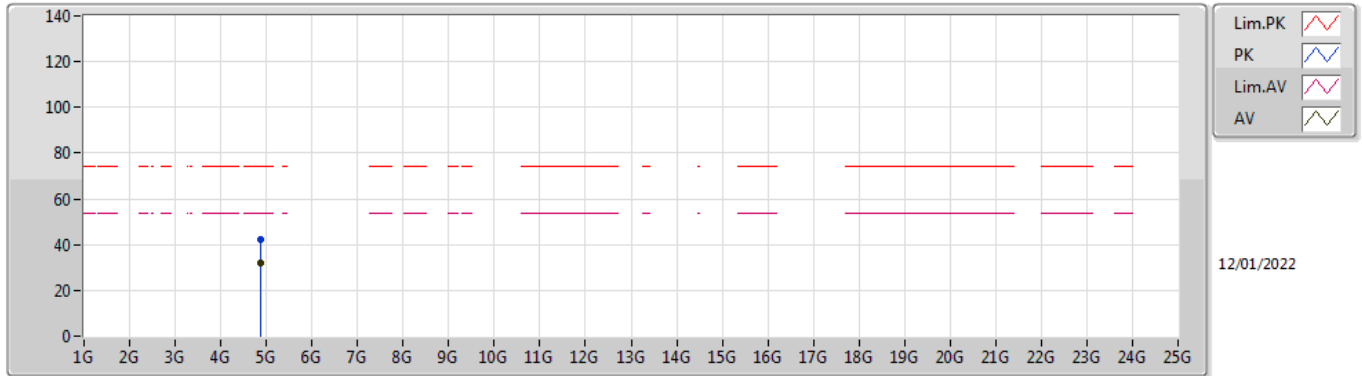
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3464G	49.10	54.00	-4.90	35.05	3	Horizontal	343	2.32	-	14.05	27.81	7.24	-
AV	2.44G	95.16	Inf	-Inf	34.75	3	Horizontal	343	2.32	-	60.41	27.46	7.29	-
AV	2.4952G	48.74	54.00	-5.26	34.74	3	Horizontal	343	2.32	-	14.00	27.40	7.34	-
PK	2.3736G	58.27	74.00	-15.73	35.00	3	Horizontal	343	2.32	-	23.27	27.75	7.25	-
PK	2.4404G	98.53	Inf	-Inf	34.75	3	Horizontal	343	2.32	-	63.78	27.46	7.29	-
PK	2.484G	58.93	74.00	-15.07	34.73	3	Horizontal	343	2.32	-	24.20	27.40	7.33	-

BT-LE(2Mbps)

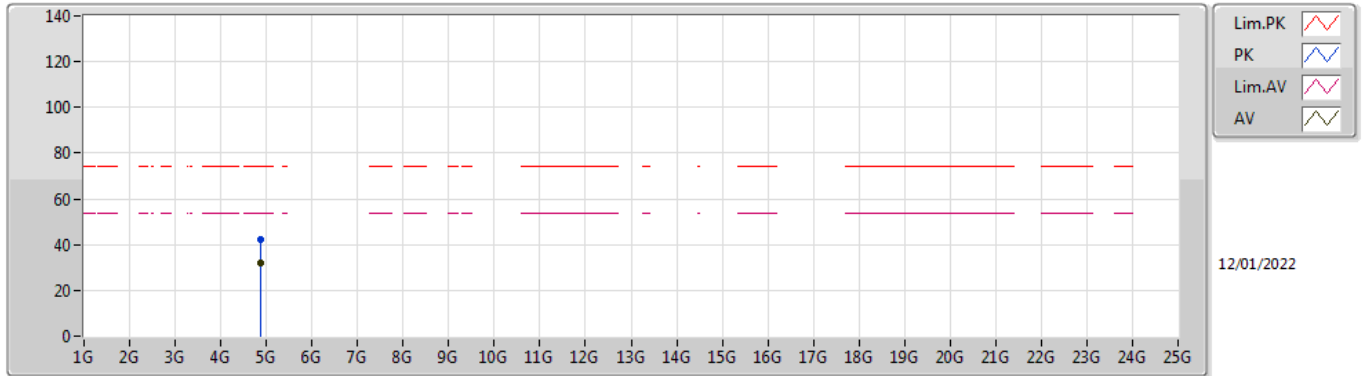
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.88042G	32.07	54.00	-21.93	6.00	3	Vertical	218	1.42	-	26.07	31.20	8.96	34.16
PK	4.8743G	42.45	74.00	-31.55	6.00	3	Vertical	218	1.42	-	36.45	31.20	8.96	34.16

BT-LE(2Mbps)

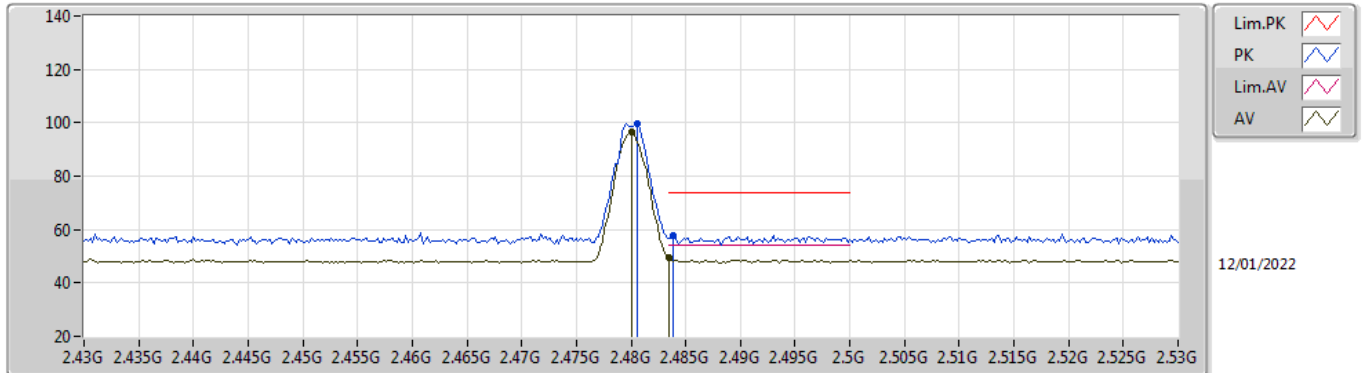
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87921G	32.16	54.00	-21.84	6.00	3	Horizontal	239	1.96	-	26.16	31.20	8.96	34.16
PK	4.87946G	42.35	74.00	-31.65	6.00	3	Horizontal	239	1.96	-	36.35	31.20	8.96	34.16

BT-LE(2Mbps)

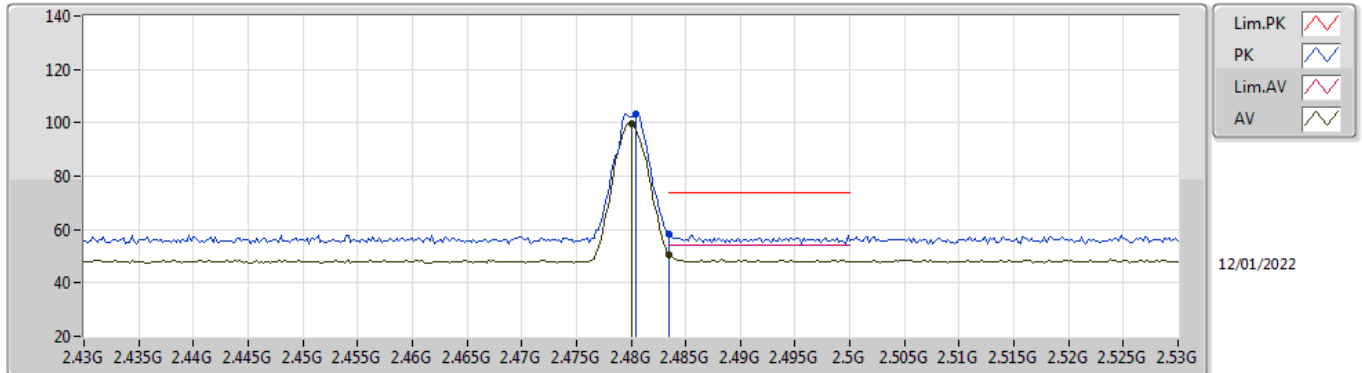
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	96.31	Inf	-Inf	34.72	3	Vertical	47	2.86	-	61.59	27.40	7.32	-
AV	2.4835G	49.64	54.00	-4.36	34.73	3	Vertical	47	2.86	-	14.91	27.40	7.33	-
PK	2.4806G	99.61	Inf	-Inf	34.72	3	Vertical	47	2.86	-	64.89	27.40	7.32	-
PK	2.4838G	57.88	74.00	-16.12	34.73	3	Vertical	47	2.86	-	23.15	27.40	7.33	-

BT-LE(2Mbps)

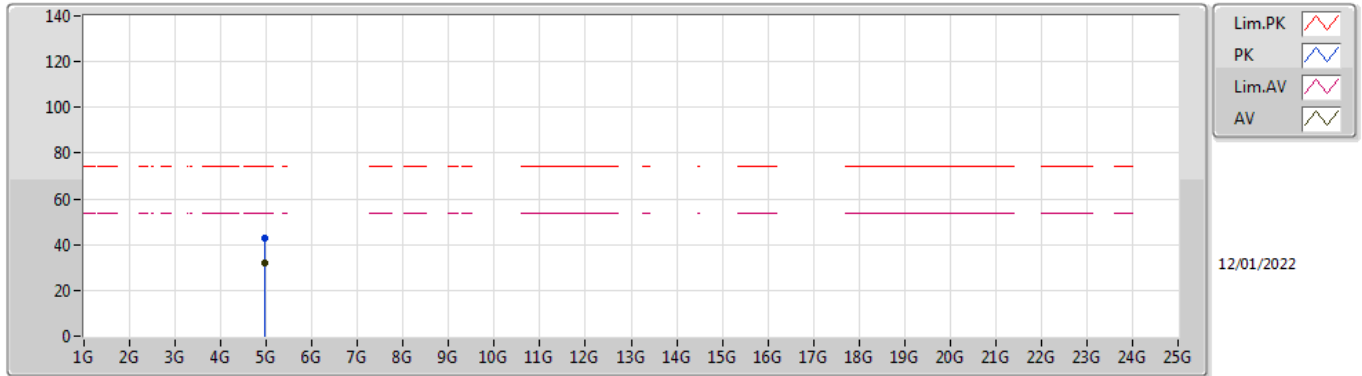
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	99.86	Inf	-Inf	34.72	3	Horizontal	342	1.00	-	65.14	27.40	7.32	-
AV	2.4835G	50.61	54.00	-3.39	34.73	3	Horizontal	342	1.00	-	15.88	27.40	7.33	-
PK	2.4804G	103.25	Inf	-Inf	34.72	3	Horizontal	342	1.00	-	68.53	27.40	7.32	-
PK	2.4835G	58.15	74.00	-15.85	34.73	3	Horizontal	342	1.00	-	23.42	27.40	7.33	-

BT-LE(2Mbps)

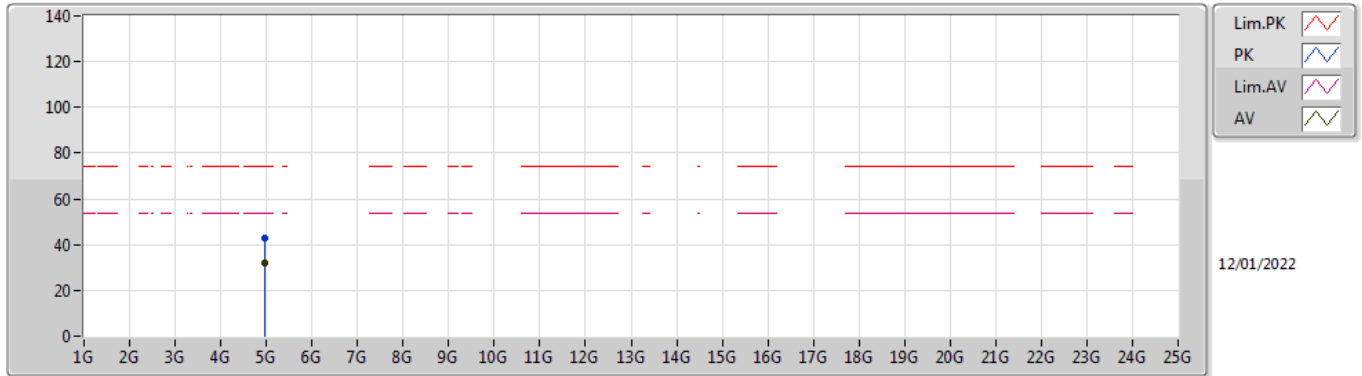
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95955G	32.22	54.00	-21.78	6.32	3	Vertical	66	1.46	-	25.90	31.42	9.02	34.12
PK	4.95894G	43.05	74.00	-30.95	6.32	3	Vertical	66	1.46	-	36.73	31.42	9.02	34.12

BT-LE(2Mbps)

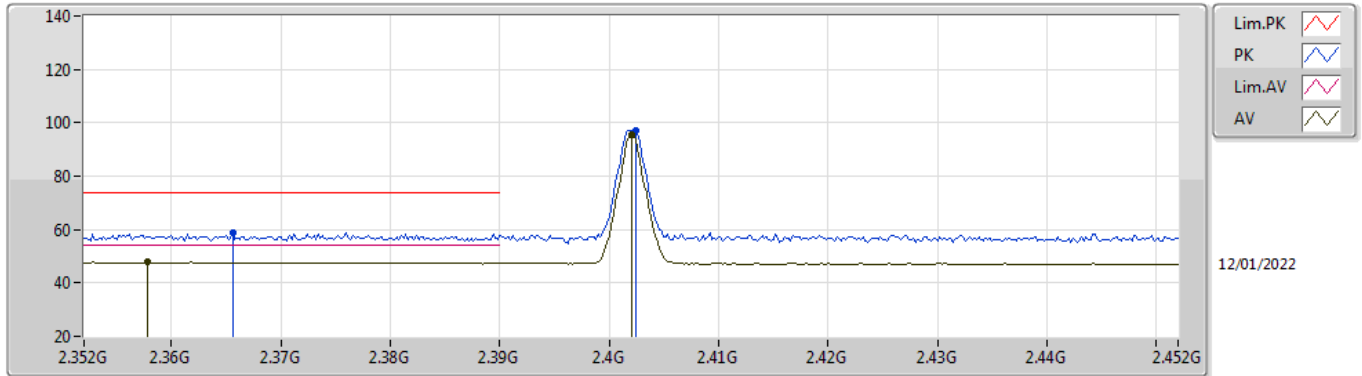
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96141G	32.21	54.00	-21.79	6.32	3	Horizontal	168	1.49	-	25.89	31.42	9.02	34.12
PK	4.96104G	42.89	74.00	-31.11	6.32	3	Horizontal	168	1.49	-	36.57	31.42	9.02	34.12

BT-LE(125kbps)

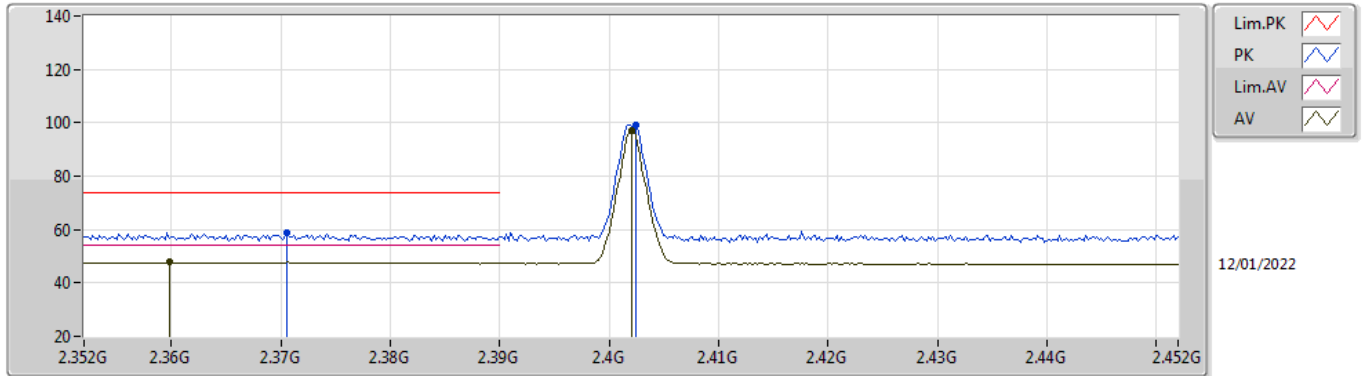
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3578G	47.70	54.00	-6.30	35.02	3	Vertical	32	3.00	-	12.68	27.78	7.24	-
AV	2.402G	95.35	Inf	-Inf	34.95	3	Vertical	32	3.00	-	60.40	27.69	7.26	-
PK	2.3656G	58.72	74.00	-15.28	35.01	3	Vertical	32	3.00	-	23.71	27.77	7.24	-
PK	2.4024G	97.30	Inf	-Inf	34.95	3	Vertical	32	3.00	-	62.35	27.69	7.26	-

BT-LE(125kbps)

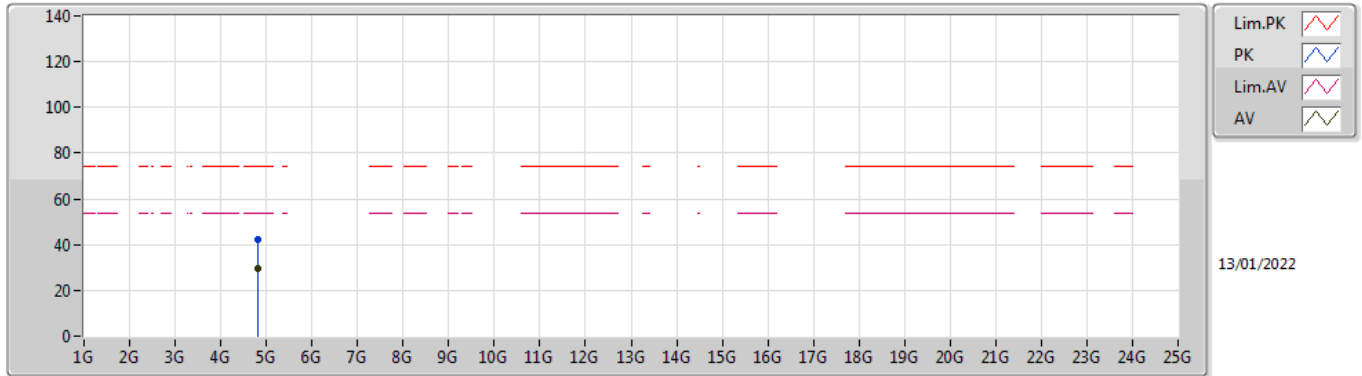
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3598G	47.77	54.00	-6.23	35.02	3	Horizontal	333	2.60	-	12.75	27.78	7.24	-
AV	2.402G	97.11	Inf	-Inf	34.95	3	Horizontal	333	2.60	-	62.16	27.69	7.26	-
PK	2.3706G	58.72	74.00	-15.28	35.01	3	Horizontal	333	2.60	-	23.71	27.76	7.25	-
PK	2.4024G	99.16	Inf	-Inf	34.95	3	Horizontal	333	2.60	-	64.21	27.69	7.26	-

BT-LE(125kbps)

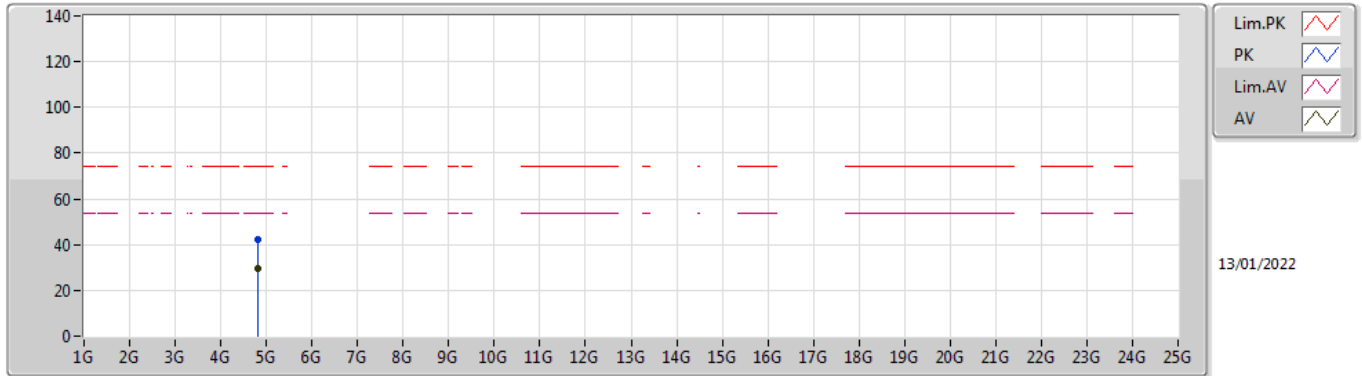
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.81642G	29.84	54.00	-24.16	5.85	3	Vertical	240	2.22	-	23.99	31.13	8.91	34.19
PK	4.80184G	42.28	74.00	-31.72	5.80	3	Vertical	240	2.22	-	36.48	31.10	8.90	34.20

BT-LE(125kbps)

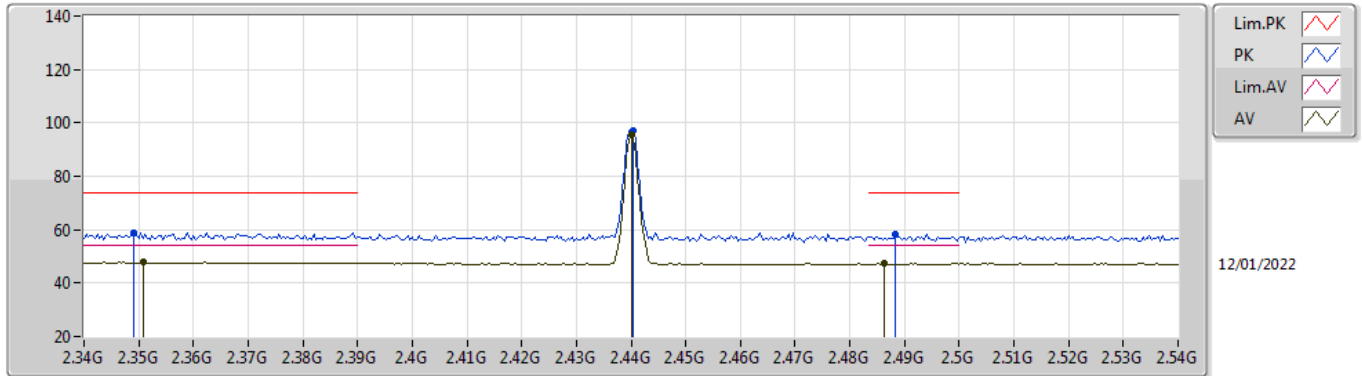
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.81588G	29.70	54.00	-24.30	5.85	3	Horizontal	273	1.73	-	23.85	31.13	8.91	34.19
PK	4.8043G	42.42	74.00	-31.58	5.82	3	Horizontal	273	1.73	-	36.60	31.11	8.90	34.19

BT-LE(125kbps)

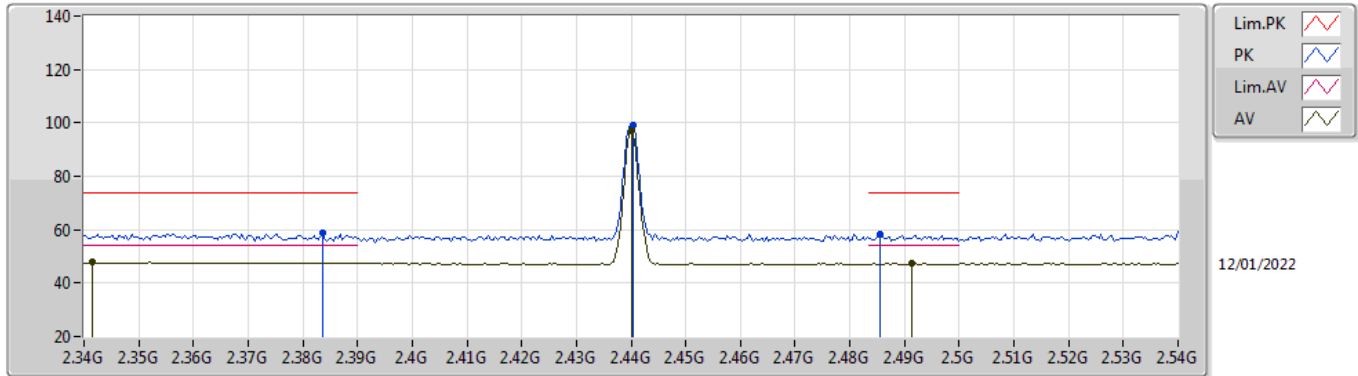
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3508G	47.81	54.00	-6.19	35.04	3	Vertical	29	1.57	-	12.77	27.80	7.24	-
AV	2.44G	95.53	Inf	-Inf	34.75	3	Vertical	29	1.57	-	60.78	27.46	7.29	-
AV	2.4864G	47.28	54.00	-6.72	34.73	3	Vertical	29	1.57	-	12.55	27.40	7.33	-
PK	2.3492G	58.80	74.00	-15.20	35.04	3	Vertical	29	1.57	-	23.76	27.80	7.24	-
PK	2.4404G	97.26	Inf	-Inf	34.75	3	Vertical	29	1.57	-	62.51	27.46	7.29	-
PK	2.4884G	58.42	74.00	-15.58	34.73	3	Vertical	29	1.57	-	23.69	27.40	7.33	-

BT-LE(125kbps)

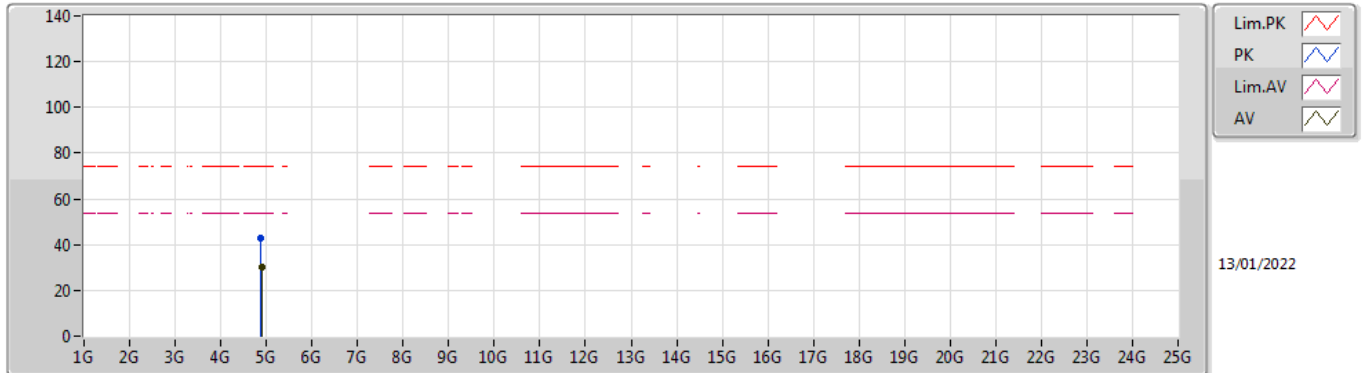
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3416G	47.72	54.00	-6.28	35.05	3	Horizontal	346	2.03	-	12.67	27.82	7.23	-
AV	2.44G	97.16	Inf	-Inf	34.75	3	Horizontal	346	2.03	-	62.41	27.46	7.29	-
AV	2.4912G	47.25	54.00	-6.75	34.73	3	Horizontal	346	2.03	-	12.52	27.40	7.33	-
PK	2.3836G	58.95	74.00	-15.05	34.98	3	Horizontal	346	2.03	-	23.97	27.73	7.25	-
PK	2.4404G	99.02	Inf	-Inf	34.75	3	Horizontal	346	2.03	-	64.27	27.46	7.29	-
PK	2.4856G	58.11	74.00	-15.89	34.73	3	Horizontal	346	2.03	-	23.38	27.40	7.33	-

BT-LE(125kbps)

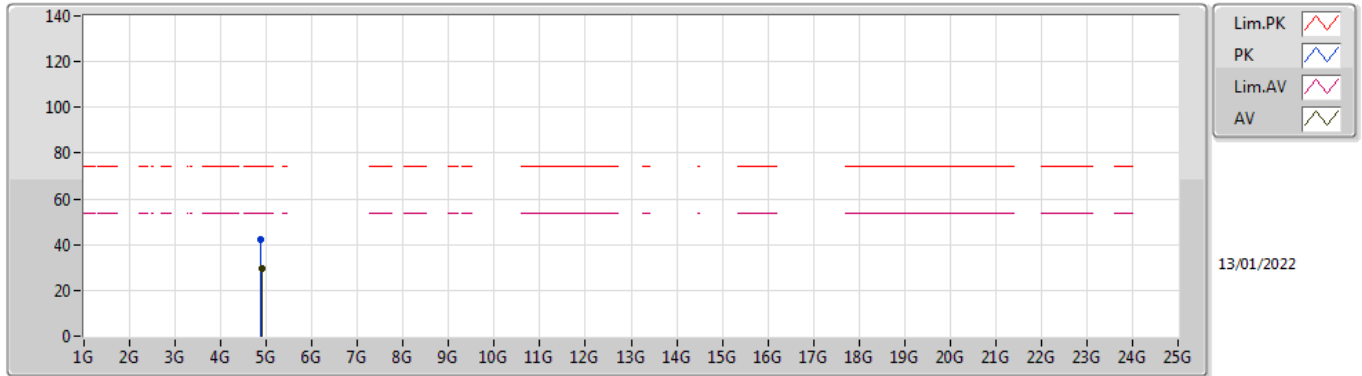
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.89338G	30.19	54.00	-23.81	6.02	3	Vertical	312	1.45	-	24.17	31.20	8.97	34.15
PK	4.88792G	42.85	74.00	-31.15	6.02	3	Vertical	312	1.45	-	36.83	31.20	8.97	34.15

BT-LE(125kbps)

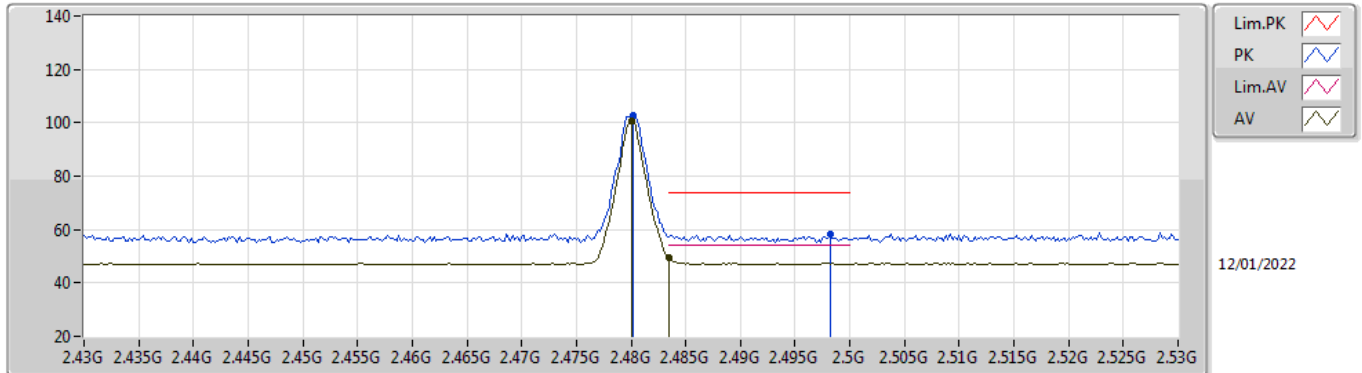
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.89476G	29.86	54.00	-24.14	6.02	3	Horizontal	137	1.64	-	23.84	31.20	8.97	34.15
PK	4.8815G	42.15	74.00	-31.85	6.00	3	Horizontal	137	1.64	-	36.15	31.20	8.96	34.16

BT-LE(125kbps)

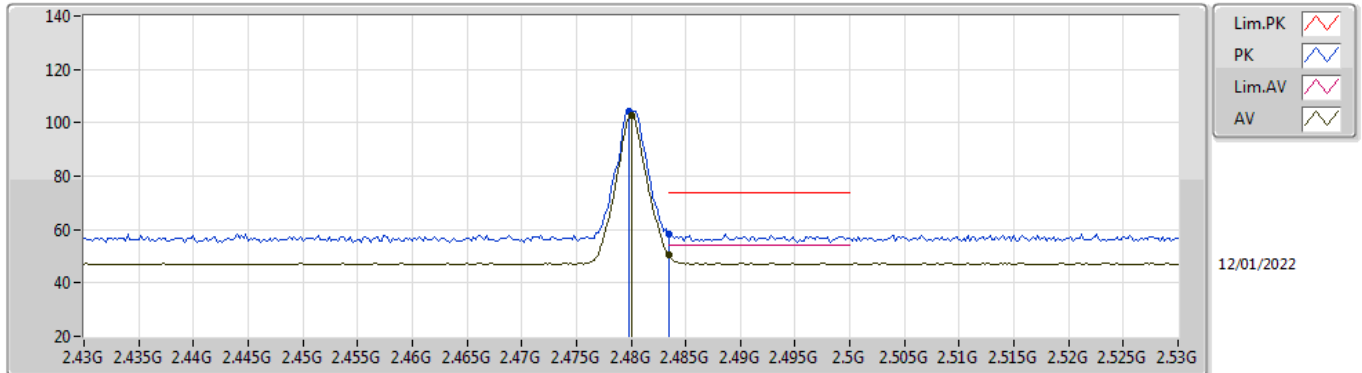
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	100.69	Inf	-Inf	34.72	3	Vertical	43	2.07	-	65.97	27.40	7.32	-
AV	2.4835G	49.56	54.00	-4.44	34.73	3	Vertical	43	2.07	-	14.83	27.40	7.33	-
PK	2.4802G	102.52	Inf	-Inf	34.72	3	Vertical	43	2.07	-	67.80	27.40	7.32	-
PK	2.4982G	58.18	74.00	-15.82	34.74	3	Vertical	43	2.07	-	23.44	27.40	7.34	-

BT-LE(125kbps)

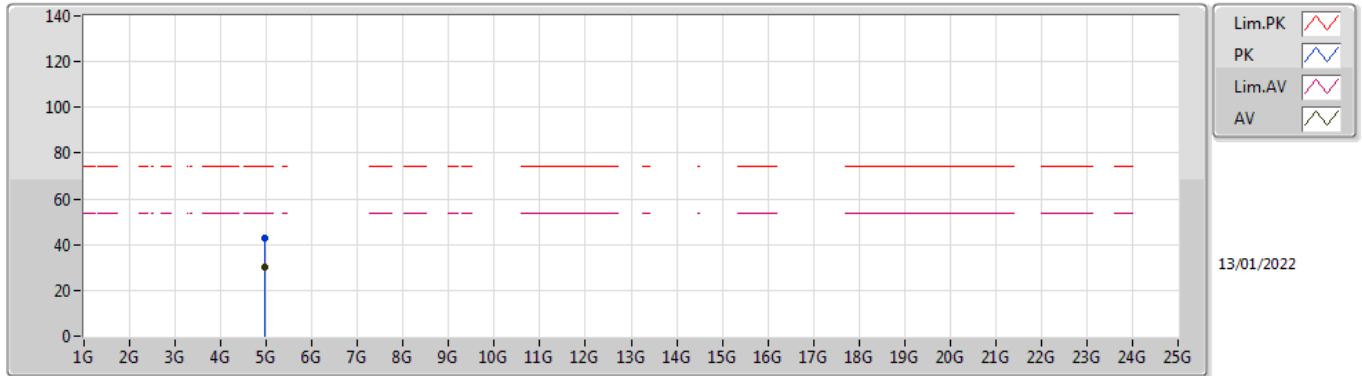
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	102.56	Inf	-Inf	34.72	3	Horizontal	349	2.19	-	67.84	27.40	7.32	-
AV	2.4835G	50.54	54.00	-3.46	34.73	3	Horizontal	349	2.19	-	15.81	27.40	7.33	-
PK	2.4798G	104.48	Inf	-Inf	34.72	3	Horizontal	349	2.19	-	69.76	27.40	7.32	-
PK	2.4835G	58.25	74.00	-15.75	34.73	3	Horizontal	349	2.19	-	23.52	27.40	7.33	-

BT-LE(125kbps)

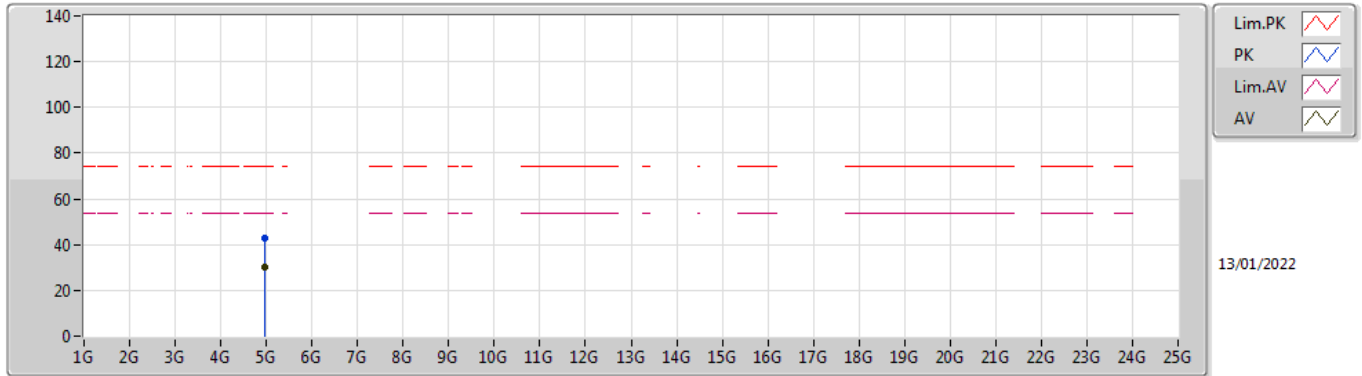
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9741G	30.13	54.00	-23.87	6.37	3	Vertical	168	1.77	-	23.76	31.45	9.03	34.11
PK	4.97332G	42.69	74.00	-31.31	6.37	3	Vertical	168	1.77	-	36.32	31.45	9.03	34.11

BT-LE(125kbps)

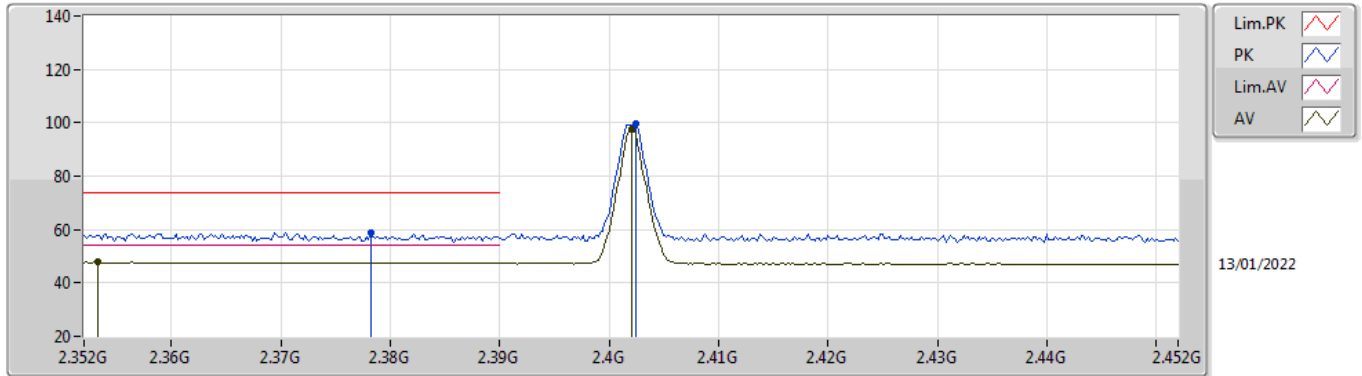
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95994G	30.10	54.00	-23.90	6.32	3	Horizontal	108	2.82	-	23.78	31.42	9.02	34.12
PK	4.95784G	42.71	74.00	-31.29	6.32	3	Horizontal	108	2.82	-	36.39	31.42	9.02	34.12

BT-LE(500kbps)

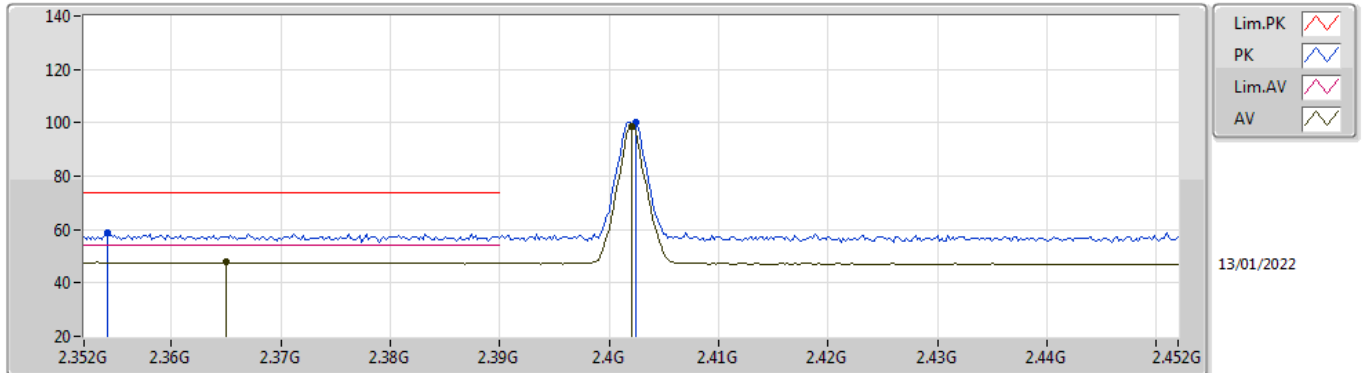
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3532G	47.84	54.00	-6.16	35.03	3	Vertical	29	3.00	-	12.81	27.79	7.24	-
AV	2.402G	97.70	Inf	-Inf	34.95	3	Vertical	29	3.00	-	62.75	27.69	7.26	-
PK	2.3782G	58.92	74.00	-15.08	34.99	3	Vertical	29	3.00	-	23.93	27.74	7.25	-
PK	2.4024G	99.86	Inf	-Inf	34.95	3	Vertical	29	3.00	-	64.91	27.69	7.26	-

BT-LE(500kbps)

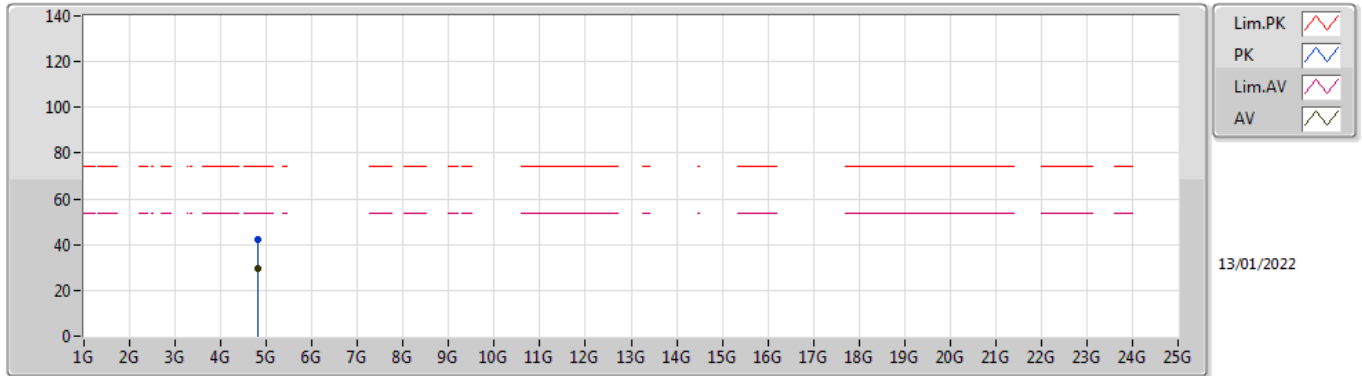
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.365G	47.74	54.00	-6.26	35.01	3	Horizontal	334	2.60	-	12.73	27.77	7.24	-
AV	2.402G	98.42	Inf	-Inf	34.95	3	Horizontal	334	2.60	-	63.47	27.69	7.26	-
PK	2.3542G	58.69	74.00	-15.31	35.03	3	Horizontal	334	2.60	-	23.66	27.79	7.24	-
PK	2.4024G	100.28	Inf	-Inf	34.95	3	Horizontal	334	2.60	-	65.33	27.69	7.26	-

BT-LE(500kbps)

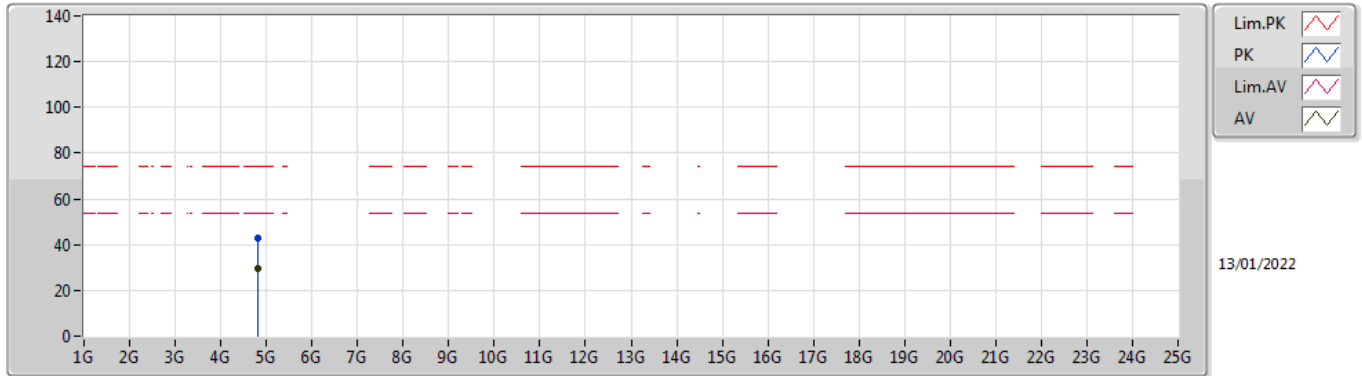
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.80275G	29.47	54.00	-24.53	5.82	3	Vertical	190	1.50	-	23.65	31.11	8.90	34.19
PK	4.80498G	42.46	74.00	-31.54	5.82	3	Vertical	190	1.50	-	36.64	31.11	8.90	34.19

BT-LE(500kbps)

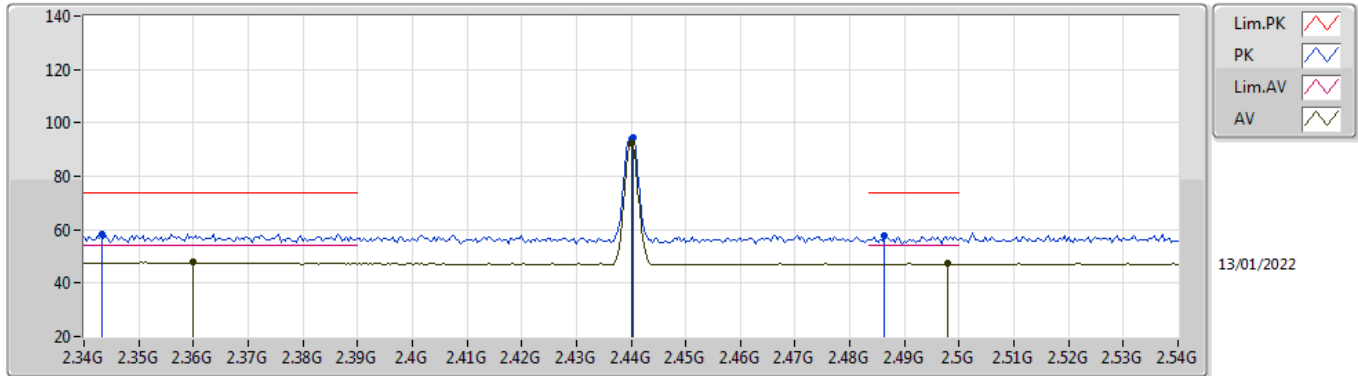
2402MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80285G	29.57	54.00	-24.43	5.82	3	Horizontal	306	2.06	-	23.75	31.11	8.90	34.19
PK	4.80339G	42.72	74.00	-31.28	5.82	3	Horizontal	306	2.06	-	36.90	31.11	8.90	34.19

BT-LE(500kbps)

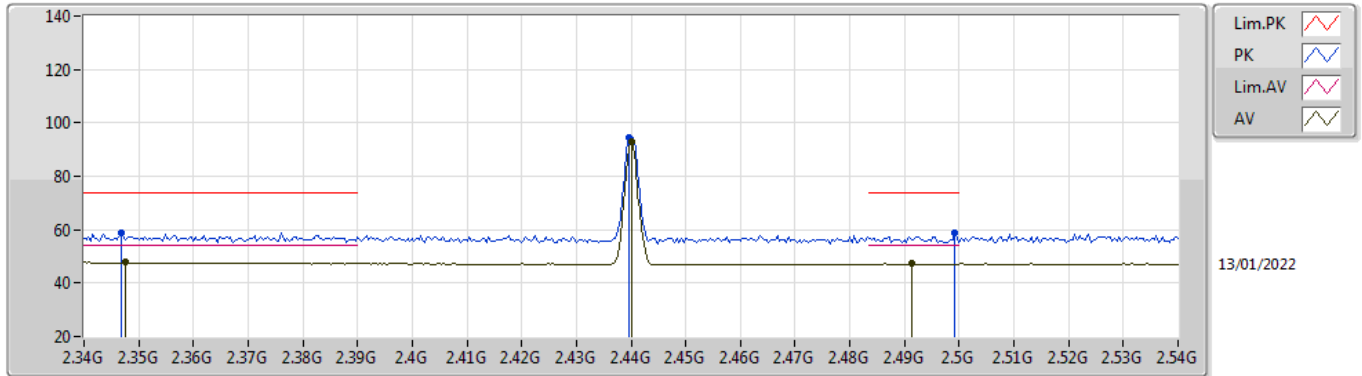
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.36G	47.73	54.00	-6.27	35.02	3	Vertical	28	1.57	-	12.71	27.78	7.24	-
AV	2.44G	92.63	Inf	-Inf	34.75	3	Vertical	28	1.57	-	57.88	27.46	7.29	-
AV	2.498G	47.18	54.00	-6.82	34.74	3	Vertical	28	1.57	-	12.44	27.40	7.34	-
PK	2.3432G	58.51	74.00	-15.49	35.04	3	Vertical	28	1.57	-	23.47	27.81	7.23	-
PK	2.4404G	94.68	Inf	-Inf	34.75	3	Vertical	28	1.57	-	59.93	27.46	7.29	-
PK	2.4864G	57.88	74.00	-16.12	34.73	3	Vertical	28	1.57	-	23.15	27.40	7.33	-

BT-LE(500kbps)

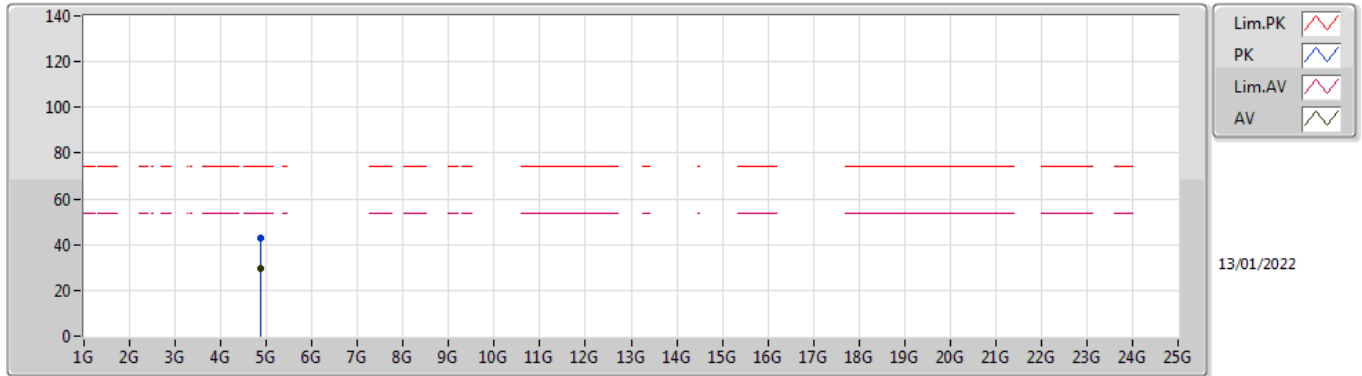
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3476G	47.74	54.00	-6.26	35.04	3	Horizontal	346	2.80	-	12.70	27.80	7.24	-
AV	2.44G	92.69	Inf	-Inf	34.75	3	Horizontal	346	2.80	-	57.94	27.46	7.29	-
AV	2.4912G	47.18	54.00	-6.82	34.73	3	Horizontal	346	2.80	-	12.45	27.40	7.33	-
PK	2.3468G	58.73	74.00	-15.27	35.05	3	Horizontal	346	2.80	-	23.68	27.81	7.24	-
PK	2.4396G	94.47	Inf	-Inf	34.75	3	Horizontal	346	2.80	-	59.72	27.46	7.29	-
PK	2.4992G	58.59	74.00	-15.41	34.74	3	Horizontal	346	2.80	-	23.85	27.40	7.34	-

BT-LE(500kbps)

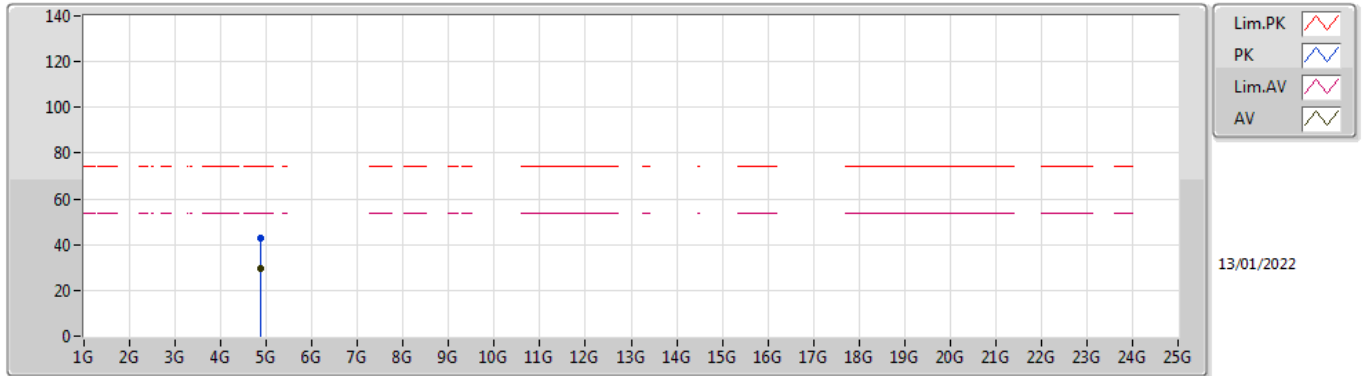
2440MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.87864G	29.55	54.00	-24.45	6.00	3	Vertical	0	1.86	-	23.55	31.20	8.96	34.16
PK	4.8806G	42.66	74.00	-31.34	6.00	3	Vertical	0	1.86	-	36.66	31.20	8.96	34.16

BT-LE(500kbps)

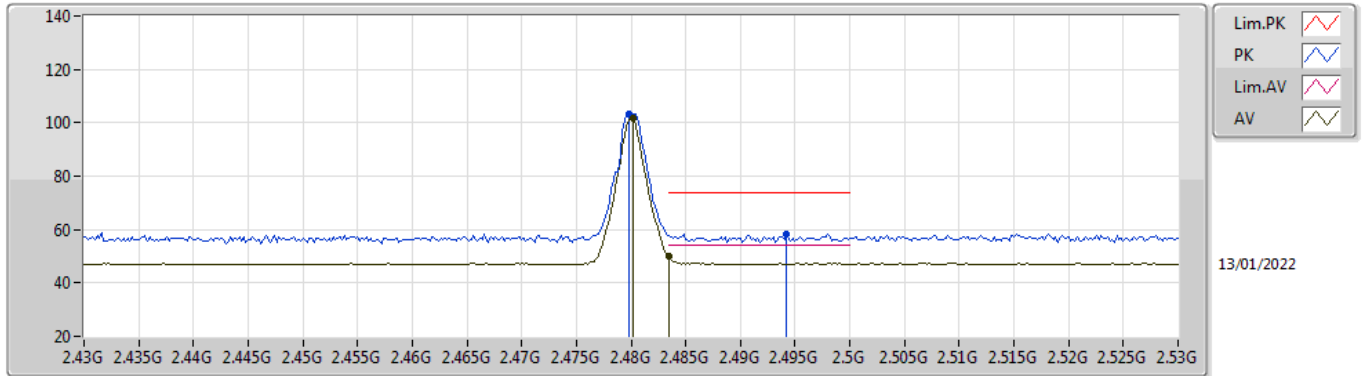
2440MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88014G	29.74	54.00	-24.26	6.00	3	Horizontal	88	1.50	-	23.74	31.20	8.96	34.16
PK	4.88062G	42.89	74.00	-31.11	6.00	3	Horizontal	88	1.50	-	36.89	31.20	8.96	34.16

BT-LE(500kbps)

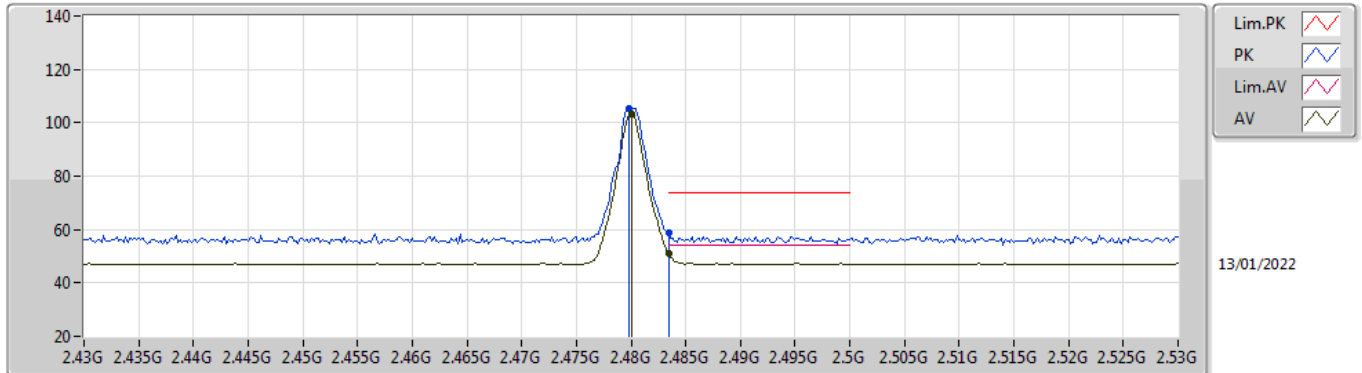
2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4802G	101.51	Inf	-Inf	34.72	3	Vertical	53	2.81	-	66.79	27.40	7.32	-
AV	2.4835G	49.80	54.00	-4.20	34.73	3	Vertical	53	2.81	-	15.07	27.40	7.33	-
PK	2.4798G	103.51	Inf	-Inf	34.72	3	Vertical	53	2.81	-	68.79	27.40	7.32	-
PK	2.4942G	58.23	74.00	-15.77	34.74	3	Vertical	53	2.81	-	23.49	27.40	7.34	-

BT-LE(500kbps)

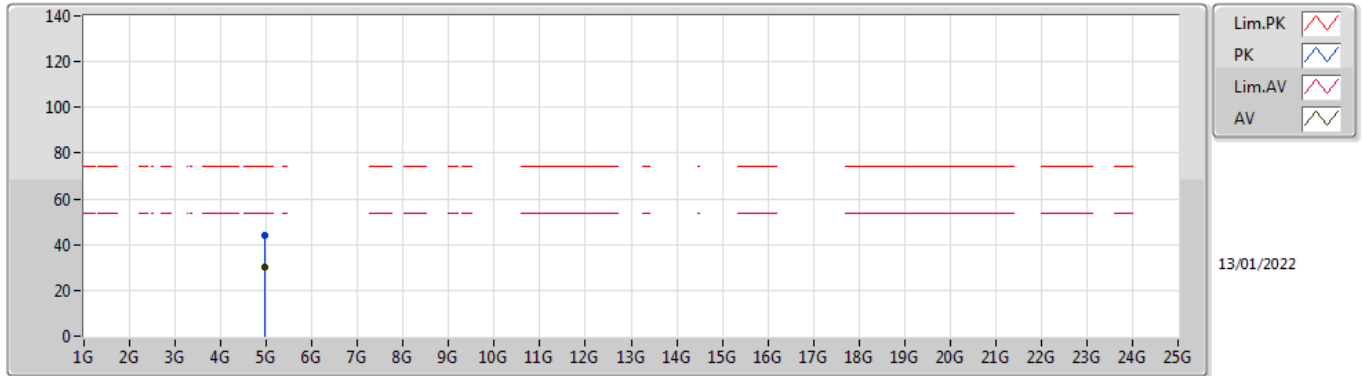
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	103.47	Inf	-Inf	34.72	3	Horizontal	348	2.17	-	68.75	27.40	7.32	-
AV	2.4835G	50.95	54.00	-3.05	34.73	3	Horizontal	348	2.17	-	16.22	27.40	7.33	-
PK	2.4798G	105.51	Inf	-Inf	34.72	3	Horizontal	348	2.17	-	70.79	27.40	7.32	-
PK	2.4835G	58.71	74.00	-15.29	34.73	3	Horizontal	348	2.17	-	23.98	27.40	7.33	-

BT-LE(500kbps)

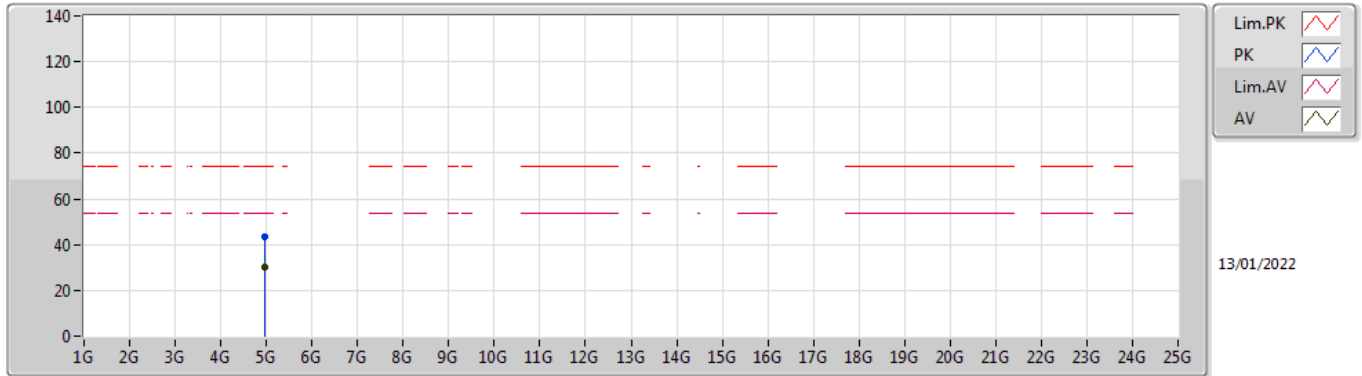
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.96035G	30.05	54.00	-23.95	6.32	3	Vertical	0	1.58	-	23.73	31.42	9.02	34.12
PK	4.96118G	43.94	74.00	-30.06	6.32	3	Vertical	0	1.58	-	37.62	31.42	9.02	34.12

BT-LE(500kbps)

2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95526G	30.23	54.00	-23.77	6.31	3	Horizontal	262	1.50	-	23.92	31.41	9.02	34.12
PK	4.9546G	43.22	74.00	-30.78	6.31	3	Horizontal	262	1.50	-	36.91	31.41	9.02	34.12